



THE CHEMIST AND DRUGGIST

TELEPHONE
1852
NUMBER

TELEGRAPHIC
ADDRESS
CHEMISTS LONDON.

Chief Office:
LONDON,
Cannon St.
E.C.

Established in
ENGLAND - 1859. AUSTRALASIA - 1885.

Branch Offices:
MELBOURNE
and
SYDNEY.

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Prix de l'abonnement:—The Chemist and Druggist
une fois par semaine, et l'agenda du Chemist and
Druggist une fois par an, 12.50 francs par an,
franco.

Abonnementspreis:—The Chemist and Druggist
einmal wöchentlich, und Notizkalender des
Chemist and Druggist einmal im Jahre, 10 Mark
jährlich, frei in's Hause geliefert.

Precio de suscripcion: The Chemist and Druggist,
una vez por semana, y el Agenda del Chemist and
Druggist una vez al año, 12.50 pesetas anuales
franco.

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Allen & Hanburys Ltd.

Manufacturers of Improved

Jujubes & Pastilles

ANISEED LIQUORICE.
BLACK CURRANT. DELECTABLE.
EXTRACT OF MALT.
GLYCERINE GUIMAUVE.
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BY PATENT PROCESS.

TRADE



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PECTORAL. PINE.
RASPBERRY. ROSE.
TAMARIND.
VIOLET. VOICE.

Any of the above can be had in the form of ordinary cut Jujubes or Oval Pastilles,

Jujubes, 1/10 per lb.; Pastilles, 2/-; Guimauve, 2/4. Jujubes and Pastilles also sold in boxes at 6d. and 1/- each, 4/- and 8/- per dozen.

PECTORAL FRUIT PASTILLES (Registered). A bronchial and pulmonic Jujube of delicious flavour. Sold in round boxes
at 1/-, 1/3, and 3/-; or 9/-, 16/-, and 27/- per doz.

CRYSTALLISED FRUIT PASTILLES. CRYSTALLISED CHLORODYNE PASTILLES.

Jujubes and Pastilles of any special flavour or tint will be manufactured exclusively for any customer, according to requirements.
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MEDICATED THROAT PASTILLES, in 53 varieties. In 1-lb. bottles, at 2/4 each; and 1/- tins, 8/- doz.

Lozenges.

The following are a few of the well-known Lozenges manufactured by Allen & Hanburys Ltd., which are in general demand:—

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Supplied in BULK, or in 1/- boxes, attractively labelled for retail sale, at 8/- per doz. Quotations given for any quantity.

Manufacturers of all Lozenges of the British Pharmacopoeia, Throat Hospital, and from Private Formulæ.

Cachous.

Fragrant and Refreshing, imparting a sweet odour to the Breath.

These Cachous are both elegant in appearance and most agreeable to the taste, the finest materials only being used in their manufacture, whilst,
on being supplied in bulk, purchasers can adopt them as their own specialities. They are prepared with the following flavours:—

Ess. Bouquet. Jasmin.	Jockey Club. Heliotrope.	Lavender. Musk.	Patchouli. Tubereuse.	Rose. Extra Rose.	Vanilla. Wallflower.	White Lilac. White Rose.	Wood Violet. Millefleurs (mixed).
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Applied in bulk in 1-lb. and 1/2-lb. bottles, with boxwood top corks, and artistically labelled for counter display, at 2/9 per lb.;
also in small tin boxes at 4/- per doz., or 44/- per gross. Also Aromatic Cachous, at 2/4 per lb.

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MAY & BAKER, LIMITED



Telegraphic Address—"BISMUTH LONDON."
A B C Code Used.

ESTABLISHED
OVER 60 YEARS.

Telephone No. "9003,
BATTERSEA."

Agreeably with a recent intimation from Messrs. JOHNSON & SONS, 23 Cross Street, Finsbury, London, E.C., that they have entirely transferred their Cyanide Business to us, we take this opportunity of asking your notice to some of the other Articles which we manufacture, and shall esteem your enquiries.

CYANIDE OF POTASSIUM (JOHNSON'S QUALITY.)

NICKEL SALTS, ACIDS, AND ALL PLATING CHEMICALS.

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Refined Bells and M. & B. Transparent Tablets.

MERCURIALS. ETHERS. BISMUTH SALTS.

COLLODIONS, SULPHITE and CARBONATE of SODA and

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PERCHLORIDE OF IRON, NITRIC ACID, &c.

Specially Prepared for **PROCESS WORK.**

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BATTERSEA SQUARE.**

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**NEAREST STATION,
OLD BATTERSEA STATION,
West London Extension Railway.**

The Chemist & Druggist

SUPPLEMENT

SATURDAY, JANUARY 23, 1897.

Businesses Wanted
Businesses for Disposal
Premises to Let
Auction Sales

ALSO EXCHANGE COLUMN.
For Bargains see the last page of this Supplement.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

**DON'T
MISS
IT.**

Our Winter Issue will be next week.

The Cover will be as handsome as any of its predecessors.

There will be Eleven Thousand Copies of it, and a Supplement in Each one of them.

That is 11,000 chances for each Advertisement inserted, without reckoning the extra Supplements given to those who want them.

If you need a Situation or an Assistant, to Buy or Sell a Business, or have anything to dispose of through the Exchange Column, send your Advertisement to us early in the week.

We go to press earlier, but will receive Supplement Advertisements up to Thursday.

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

VENDORS have the advantage of Messrs. O. & Co.'s direct attention and advice as to value without additional fee.

PURCHASERS are invited to forward a statement of their requirements, which will be notified in a register free of charge.

VALUATIONS having always been a prominent feature, Messrs. O. & Co. trust that the lengthened period during which they have enjoyed the confidence of the profession will be regarded as a sufficient proof of the sincerity of their endeavours to conduct these transactions in an honourable and straightforward manner.

1.—£900.—**LONDON, W. (Good Residential Locality).**—Old-established Business. Dispensing and Retail (chiefly Dispensing); returns, present rate, about £900 per annum; commodious residence; held on long lease; price about £500; illness cause of sale.

2.—£650.—**CITY (near).**—Light Retail Business; chiefly ready money; returns, under manager, £650; net profit £300; the shop is well fitted in mahogany; comfortable residence; held on lease; price about £500; the business is situate in one of the busiest main thoroughfares in London.

3.—£1,100.—**LONDON, N.W. (Good-class Residential Suburb).**—Dispensing and Retail Business; well situate in main thoroughfare; corner position; returns exceed £1,100 per annum; handsomely-fitted pharmacy; large and well selected stock; intending investors with about £1,300 at command can have particulars.

4.—£400.—**BLACKHEATH (near).**—Good-class Business; light Retail and Dispensing; returns about £400; with excellent profits; well-fitted pharmacy; held on lease; price £250.

5.—£2,500.—**LONDON.**—Old-established Business; Dispensing and Retail; returns £2,500; including some select wholesale; the shop is well-fitted and stocked; open to inspection; vendor will give an introduction if wished; terms, valuation or lump sum, as desired (offer wanted).

6.—£1,000.—**LONDON (Residential Locality).**—Good-class Business; Retail and Dispensing; returns exceed £1,000 yearly; the shop is handsomely fitted; commodious residence; about £750 required.

7.—£400.—**LONDON, S.W.**—Old-established Business; situate in busy main road; returns about £400 yearly; capital house with garden; full particulars on application.

8.—£2,000.—**KENT (Central Position).**—Capital centre for trade; Old-established concern; returns £2,000; net profit exceeds £450; the shop is large and well-fitted; capital house on lease; Terms, goodwill £150 and valuation of stock and fixtures; capital opening for an energetic man.

9.—£800.—**SUSSEX (Health Resort).**—Old-established business, Retail and Dispensing; well situate in the leading thoroughfare; returns between £700 and £800 per annum; the shop is well-fitted and stocked; capital residence, held on lease; price £550; estimated value of stock and fixtures.

10.—£650.—**SUFFOLK (Market Town).**—Old-established business; Light Retail and Prescribing; returns last year over £650, increasing; profits about £200; large and well-fitted shop; capital house, with garden; about £500 required.

11.—£1,100.—**CORNWALL (Mixed Business).**—Old-established Concern returns £1,100 per annum, with good profits; vendor having another business which requires his personal attention, will sell for £550; no opposition in the drug-trade in the town.

12.—£600.—**KENT (Market Town).**—Old-established Business situate in the High Street; returns over £600; select good trade, all very profitable; single-fronted shop and good stock; nice house, with garden; offer wanted; London references if wished.

13.—£750.—**BIRKENHEAD (Branch Business).**—Well-established Business; Retail and Dispensing; no heavy business; average returns £750 per annum; the shop is well-fitted and stocked; house contains seven rooms, held at low rental; lease if wished; price £400.

14.—£2,000.—**WITHIN TWO HOURS OF TOWN.**—Old-established Business; returns exceed £2,000 yearly with good profits; capital business-premises and residence; terms small premium and valuation; about £1,100 required.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

SPECIAL NOTICE.—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale suitable for Gentlemen with Small Capital, from £200 to £500.

ORRIDGE & CO., 32 LUDGATE HILL, LONDON, E.C.

F. J. BRETT

VALUER,**37 Waterloo Street, LEICESTER.***References to Principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.***BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS.****NO CHARGE TO BUYERS.**

£1,300 returns.—**MIDLANDS**.—Good Profitable and Increasing Light Retail Business, suburb of large town; commanding shop and large modern residence; satisfactory reason for sale; net profit £400; price £950, part of which can remain on security.

£800 returns.—**NOTTINGHAM**.—General Mixed Retail; returned £1,400 with personal attention, and could again; price about £600.

£800 returns.—**LANCASHIRE**.—Attractive Double-fronted shop, in main street of busy manufacturing town; valuation £500, or stock could be reduced if desired.

£400 to £500 returns.—**DEVON**.—Light Retail, in pretty part; rent of house and shop £25 on lease; price £225.

£700 returns.—**LANCASHIRE**.—General Mixed Retail; net profit £200; price £500.

£550 returns.—**POTTERIES**.—Light Retail; Prescribing at good prices; good corner shop and house; illness cause of sale; price about £450.

£2,500 returns.—**MIDLANDS**.—Good-class Retail, with agricultural connection; very handsome pharmacy and long-established; the town and district is very desirable for residence; the net profit is about £700; price £1,800.

£800 returns.—**LONDON, N.** Light Retail; Prescribing and fair Dispensing; good house; small garden; rent £40; price £550.

£800 returns.—**LONDON, N.**—Good Light Middle-class Retail; under manager; satisfactory reason for sale; no immediate opposition, nor likely to be; rent £30; price £550.

£650 returns.—**LONDON**.—Dispensing and Light Retail, with valuable proprietary alone returning £100.

WANTED, good-class Retail in Northern town; net profit £300.**WANTED**, first-class Retail and Dispensing; lock-up shop not objected to; net profit £500 or over.**WANTED**, good Business, returning about £1,000, where £600 or £700 can be invested.

BERDOE & CO.

CHEMISTS' TRANSFER AGENTS AND VALUERS,**35 JEWRY STREET, FENCHURCH STREET, E.C.**

Established 1870.

VALUATIONS.

SPECIAL ATTENTION is paid to Valuations, which are personally conducted by a member of the firm, in any part of the United Kingdom. Our terms, which are moderate, may be had on application.

1.—**WORCESTERSHIRE**.—Ready-money Retail and Prescribing Business; returning £1,000; good house and garden; stock and fixtures worth £500; low rent, on lease; price £550; strongly recommended.

2.—**MANCHESTER (Suburb)**.—Good-class Retail and Prescribing Business; returns over £600; net profit £250; handsomely-fitted shop, well stocked; good house; same hands 15 years; price £450.

3.—**GREAT YARMOUTH**.—Good-class Retail and Dispensing Business; returns about £800; excellent position; good house; valuation of stock and fixtures only required.

4.—**SUSSEX COAST**.—Light Retail and Dispensing Business; returns over £700 at full prices; handsome double-fronted shop; good house on lease; price £525, or offer.

5.—**SURREY**.—No opposition; a Light Retail, Dispensing, and Prescribing Business; well-fitted shop, heavily stocked; excellent house and garden; price £500.

6.—**LEICESTERSHIRE**.—Market town; Family, Retail, Dispensing and Prescribing Business; returns £650; good house and garden; large well-fitted and stocked shop; price £550, or offer.

7.—**GLOUCESTERSHIRE**.—Village; population 7,000, and no opposition; Light Retail and Prescribing Business; returns £700; very profitable; good house at low rental; price £450, or offer.

8.—**DEVON**.—Small country town; Light Retail and Prescribing Business; returns nearly £500, at good prices; rent £25; convenient house; shop is well fitted and stocked; price £225.

9.—**LONDON**.—Good residential suburb; Light Retail, Dispensing, and Prescribing; returns over £700; net profit £300 after all expenses paid; good house and garden; price £500 or offer.

10.—**LONDON, W.**—Main marketing thoroughfare; returns £1,250; chiefly under assistants; net profit £350; good house; low rent; long lease; same hands 12 years; price £750.

NO CHARGE TO PURCHASERS.**35 JEWRY ST., FENCHURCH ST., CITY.**

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JUDD & MANNERS

(SUCCESSORS TO OROOKER & CO.)

**Chemists' Valuers, Transfer Agents, & Accountants,
76 CANNON STREET, LONDON, E.C.**

VALUATIONS made for Probate or Transfer by a fully qualified member of the firm. Books Audited, Balance Sheets Prepared and Chartered Accountants' Certificate given. Terms (moderate) on application.

BUCKS.—An old-established good-class Retail and Dispensing trade; returns nearly £800; very profitable; price £750, or offer; very handsome pharmacy and good house.

BURNLEY.—Branch Business for Sale; returns £400; price, valuation of stock and fixtures.

YORKSHIRE (Good Town).—Branch for Sale; returns £550; rent £70; price, valuation of stock and fixtures only; good bold premises, and plenty of scope for a pushing man.

MIDLANDS.—An old-established good-class Family and Dispensing trade; for many years in present hands; returns £1,000, very profitable; price £1,000 or offer; exceptionally good house and garden.

KENNINGTON, S.E.—Old-established Retail and Prescribing trade; returns £350; moderate rent; price £300; very few Patents sold.

WHITECHAPEL.—Very profitable Retail and Prescribing trade; returns £500; price £350; fine bold corner position and good house.

LONDON, W.—Good-class Retail and Dispensing Trade; giving a net profit of £430 a year; price £1,350; fine commanding corner premises and handsomely-fitted shop with excellent house.

40 MILES FROM LONDON.—A good-class Retail and Dispensing trade; returns £750; price £700; good house, with modern conveniences.

FIRST-CLASS RESIDENTIAL SUBURB OF LONDON.—Good Dispensing and Retail Business, with nice house and Pharmacy; returning between £600 and £700, rapidly increasing; price £500.

NEAR LONDON.—Good middle-class Family trade, with excellent sale of own Proprietaries; returns £980 last year, and increasing; splendid opening for a Dentist; price £800, or offer; moderate rent, long lease, and very convenient residence, fitted with modern appointments.

MIDLANDS.—Pleasant market town; returns £650; price £600 or offer; good house at a moderate rental; nice garden, &c.

LONDON.—An old-established Wholesale Business, with valuable Specialities; capital required to purchase £6,000; all applications for particulars must give reference.

Full particulars of any of the above sent free on application.

VALUATIONS A SPECIALITY.

FERGUSON & OSBORNE

PHARMACEUTICAL CHEMISTS,**CHEMISTS' VALUERS AND TRANSFER AGENTS.****25 YEARS' PRACTICAL EXPERIENCE.****NO CHARGE TO PURCHASERS.**

All **VALUATIONS** and **STOOCKTAKINGS** are conducted personally by the Principals. Terms on application.

1.—**CORNWALL (Market Town)**.—Family, Retail, and Prescribing, with good Dental practice; central position; first-class shop; good house and warehouses; returns £1,200; price £950.

2.—**LONDON SUBURB, S.W.**—Cash Retail and Dispensing; main road; large shop, with good house and garden; returns average £9 weekly; increasing; price £380.

3.—**LONDON, W.**—Dispensing and Prescribing business; position commands four principal squares in the West-End; severe illness cause of sale; price £450, or first close offer.

Devon, price £225; Isle of Wight, price £85; Kent, price £750; Jersey, price £650; Blackburn, price £120; Burnley (Lancs), price £300; Bedfordshire, price £250; Glamorganshire, price £180; Hastings, price £200, or offer; Dorset, price £320; Lewisham (near), price £300.

56 CHEAPSIDE, LONDON, E.C.

(Next Door to Bow Church.)

THOMAS TOMLINSON & SON,

Chemists' Transfer Agents and Valuers,**9 NEW CANNON STREET, MANCHESTER.****42 YEARS' EXPERIENCE.****Valuations Conducted with careful attention to detail.**

BUSINESSES FOR DISPOSAL, of various sizes and classes, in Weston-Super-Mare, Manchester (5), Liverpool (4), Leeds (2), Birmingham, Sheffield, Bradford, Preston, Accrington, Devon, Burnley, Nottingham, Clough Fold, Crewe, Swinton, Bolton, Penmaenmawr, Barrow-in-Furness, Bury St. Edmunds, Jersey, Oldham, Heywood, Prescott, South Wales, Cheshire, Dewsbury, West Bromwich, Blackburn. Stockport, Hyde, Chesterfield, Usk, and other towns.

Particulars free to bona-fide applicants stating locality, size, and class of Business required.

NO CHARGE TO PURCHASERS.

Telegraphic Address—"TOMTOM."

BUSINESSES FOR DISPOSAL

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

FOR sale, a Chemist's Business in the best part of West-end of London. Apply to "Town Traveller," Battley & Watts, Elephant Yard, Fore Street, E.C.

LONDON.—Good Dispensing and Family Business returning over £600, with a good house in a pleasant neighbourhood; price £500. Apply "Retail," c/o Newbery & Son, 1 King Edward Street, E.C.

LONDON, S.W.—Splendid prospects, Chemist's Business; no opposition; must sell at once; rent £40, can let off £20; good house, newly done up; price £50 or offer. Apply, J. W. H., 55 St. Martin's Lane, London, W.C.

FOR Disposal, Business in London Suburb, with Post-office attached; good stock; cash trade; returns £500, with scope for increase; convenient premises, held on lease. Apply, 248/17, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

NO OPPOSITION: returns £374; easily doubled by qualified man; good reasons for selling out; busy town, within easy distance of London; price £300; very profitable; patents almost nil. 257/11, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PRICE £650.—Eastern Counties; old-established good-class Business; no cutting; exceptional premises; long lease; net profit last year nearly £300; no agents; thorough investigation offered. Z. (261/34), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£150 per annum and suite of 5 rooms; rent and taxes free; this income can be obtained by investing £250 in a sound little business; invoice and receipts produced showing above result. Apply, Hughes, 55 Cambridge Road, Hammersmith, W.

EVESHAM.—Old-established Chemist, Drysalter, and Mineral Water Business, doing about £1,500; stock, fixtures, &c., about £800; good premises; rent £55; increasing neighbourhood. Apply, "Exor." (257/28), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A GENUINE ready-cash Drug and Prescribing Business in a well-populated locality, most exceptional opportunity to immediate purchaser; good profits; low rental; valuation about £145, or reasonable offer. Address, "Drug Store," Harrison, 28 Chapel Street, Manchester.

FOR immediate Disposal, good-class Retail, Dispensing, and Prescribing Business in centre of large manufacturing town; satisfactory reasons; returns £750; good profits; capable of considerable increase. Apply 262/18, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LIGHT Retail and Prescribing Business, near Manchester; shop well-fitted, plate-glass front, good stock; good prices obtained; returns over £900; lock-up shop; low rental and expenses; offers invited. "Bonum" (261/26), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£25; a small Dispensing Business, established 28 years; a good opening for any one just starting business, or as a stores; small rent; immediate possession; must be sold as a business or stock and fixtures; no reasonable offer refused. Apply 197, Park Lane, Tottenham.

DEATH vacancy (must be sold).—Dispensing, Prescribing, and Retail; well fitted; same hands over 30 years; predecessor amassed fortune; full prices; main thoroughfare; low rental; £200, or close offer if settled immediately. Apply, Osmond & Co., Wholesale Chemists, Portsmouth.

A GOOD Dispensing Business, in a rapidly growing Liverpool suburb; an exceptional opportunity for an energetic man; no opposition; very profitable; returns between £500 and £600; good premises, on lease; price moderate. Apply to "Nemo" c/o Messrs. Evans, Sons & Co., Liverpool.

LIGHT Cash Business, in central position of Lancashire manufacturing town; average returns for last three years £1,100 per annum; price £750, or part capital can remain on easy terms to a smart man with reliable references. Address, 251/16, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A SMALL high-class Business, with good Dispensing connection; good residential suburb; exceptional reasons for disposal; returns under management £500; price £350, or valuation terms arranged; references given and required. Apply, "Chemist," c/o Messrs. W. W. Flood & Co., 206 Borough High Street, S.E.

FOR immediate Disposal, a first-class Drug and Dispensing Business in Bolton; established over 50 years; situated in one of the main thoroughfares; close to Town Hall and tram terminus; would sell at valuation, or would accept reasonable offer. For particulars apply, Jackson Drug Co. (Lim), Larkhill, Blackburn.

LIVERPOOL.—For immediate Disposal, owing to ill-health, old-established Cash Retail and Dispensing Business; situated in a main thoroughfare; commanding position. Full particulars and references exchanged on application to "P." c/o Evans & Co., 60 Hanover Street, Liverpool. No agents; capital required about £300.

FOR immediate Disposal, old-established Cash Country Business in rapidly-rising town in Cheshire; central position; low rental; good house; returns £1,800; good profits; very complete stock, in first-class condition; fullest inspection invited. For detailed particulars apply "Cheshire," c/o Evans, Sons & Co., Liverpool.

EXCEPTIONAL opportunity, specially suitable for a Chemist, first-class Mineral Water Business, with high-class specialities doing with principal hotels, hydros, &c.; good prices; price only £650, including machinery, plant, carts, &c.; rent low. Apply, Manager, Chee Tor Mineral Water Co., New Market Street, Buxton, Derbyshire.

£500.—For immediate Disposal, Stock, Fixtures, and Goodwill of old-established Chemist's Business, in Southern seaside health resort; excellently situated; good house, low rental, and long lease, or house may also be purchased. For fullest particulars address "Ixion" (238/27), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TO be Disposed of, by private treaty, as a going concern, that old-established Business of Chemist and Druggist, No. 95 High Street, Burton-upon-Trent, carried on for many years by the late Mr. Edwin Hodson, with the stock-in-trade, goodwill, fixtures and fittings. Apply to Mr. Charles Harrison, Land Agent, 179 Horninglow Street, Burton-upon-Trent.

LONDON, N.W.—An attractive well-fitted Pharmacy in a densely-populated neighbourhood; very profitable Ready-money Business; can be greatly increased; little opposition; scope for Dentistry; good house; satisfactory reason for leaving; price £400; part can remain. "Business" (260/14), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MIDLANDS.—Prescribing, Dispensing, &c., good prices, with Wines and Spirits agency (optional), yielding net profit about £250; corner shop; mahogany fittings; good house (8 rooms); in rapidly growing country market town; good reason for disposal; lease; valuation (about £350) or offer; no agents; population 10,000. Box 147, Post Office, Nottingham.

£700.—Derbyshire.—Sound, reliable Chemist Business for Sale, near Sheffield, with Beer off, Wine and Spirit Agency; good house and garden attached; rent £35; turnover £1,060; a grand chance, and capable of great improvement; fullest investigation to buyers; satisfactory reasons for sale. Apply, Henry Bramall, Accountant, 16 Fargate, Sheffield.

SELECT Dispensing and Light Retail in N.W.; a lapsed dental practice could be revived; returns about £500; profits 50 p.c.; rent £70; could all be covered; 16 years' unexpired lease; price by arrangement; the proprietor having entered the medical profession, is desirous of selling immediately. "Ctesiphon" (259/27), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£55 for a Chemist's Business in outskirts of Manchester; good corner shop and convenient house; a good trade can be done; must sell at once, or within a month at outside. Apply, Thos. Tomlinson & Son, 9 New Cannon Street, Manchester.

MANCHESTER, ready-money Retail Dispensing and Prescribing Business, in splendid position; busy suburb of Manchester; present hands thirty years, and now retiring; returns £1,400, solely under management; exceptionally profitable; capable of large increase under principal; introduction given; price £1,000. 263/17, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£100.—Cambridgeshire.—Light Retail and Prescribing Business, returning under management £400 yearly; plenty of scope for increase; low rent; shop is well fitted and stocked; is offered at this low figure to ensure a speedy sale through manager leaving. For particulars, address "Cambs" (263/16), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CITY.—Main thoroughfare; for immediate Disposal, with possession, an old-established Prescribing and Dispensing Chemist's Business; corner position; goodwill free; stock and fixtures at valuation; rent of the large house and shop, £150 per annum on a three years' agreement; partially let off; no agents. Address, S. W., c/o Goslen & Co., 17 Tavistock Street, Covent Garden, W.C.

BUSINESSES WANTED.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

GENUINE Business wanted with a return of £700 at least, cash down if suitable. Send full particulars, 261/10, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

GENUINE Business required; give full particulars regarding class of business, returns, and net profits, rent, taxes, &c.; no agents; cash down for suitable concern; communication considered confidential. 260/13, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, to purchase a Business showing a net profit of at least £350, in or about London, or any good town Midlands, South, or West; capital at immediate command £1,100; can invest up to £2,000. Address, "Ionone," c/o J. J. Young, Esq., Louisa Chambers, 27 Chancery Lane, London, W.C.

FOR SALE

3s. 6d. for 50 words or less ; 6d. for every 10 words beyond.

FIRST-CLASS Fittings and Shop-front ; must be sold at once. Apply, Cedars Stores, West Kensington, W.

TO be Sold.—The Fittings of first-class Chemist's Shop ; Show-globes, Jars, 3 Ranges, 108 Mahogany-front Drawers, very good Dispensing-screen, Slate Shelves, Iron Supports, Stopped N.-M., and W.-M. Bottles, Pink and Gold Jars, &c. On view at 26 Sussex Gardens, Hyde Park.

PARTNERSHIPS.

3s. 6d. for 50 words or less ; 6d. for every 10 words beyond.

SOLUBLE ESSENCES. Non-Alcoholic Hop Ale, British Wines, &c. — Advertiser, possessing very valuable formulae for the manufacture of same, thorough practical knowledge of Aerated Water trade, &c., is desirous of meeting with a gentleman with sound connection as partner, or would take appointment in the South of England as Manufacturer, with view to interest in business ; capital £400. 245/31, Office of **THE CHEMIST AND DRUGGIST**, 42 Cannon Street, E.C.

APPRENTICESHIPS.

RETAIL.

APPRENTICE.—E. H. Hamilton, Chemist and Druggist, has a vacancy for an indoor Apprentice ; premium required. 19 St. James' Street, Walthamstow.

DENTISTRY. A fully qualified dentist in first-class practice has a vacancy for a Pupil ; premium required. 257/27, Office of **THE CHEMIST AND DRUGGIST**, 42 Cannon Street, E.C.

APPRENTICE.—Wanted, to place for 3 or 4 years, in a good establishment where one or more Assistants are kept, a youth 17 years ; passed his Oxford exam. ; near home preferred. Address, with full particulars, 24 Lethbridge Road, Southport.

APPRENTICE.—Seaside, South Coast. A vacancy occurs in a first-class Dispensing Business for a gentlemanly youth ; every opportunity ; good home ; moderate premium ; one assistant kept. Address 261/35, Office of **THE CHEMIST AND DRUGGIST**, 42 Cannon Street, E.C.

SITUATIONS OPEN.

3s. 6d. for 50 words or less ; 6d. for every 10 words beyond.

RETAIL.

WANTED immediately, an experienced, qualified Assistant. Woodcock, Birkenhead.

AT once, a Junior Assistant required. Messrs. P. Bouilly & Co., 85 Bishop's Road, Bayswater, W.

ASSISTANT, 22, qualified for good class Retail and Dispensing ; indoors. Laphorn, 79, Abhey Road, N.W.

JUNIOR, or Improver wanted ; Retail Dispensing business ; easy hours. Apply, with references, A. H. Ferriday, Oakengates.

WANTED, a qualified Assistant about 24 years of age ; must be a good counterman. Apply to J. Burton, Chemist, Llandudno.

WANTED, an Assistant, about 24 ; must be a good Dispenser and Counterman ; personal application preferred. J. Chilwell, 452 Oxford Street, W.

WANTED, qualified Assistant : one able to Pr scribe, Extract Teeth, &c. References, salary required (outdoors), to Butler & Son, Sanvy Gate, Leicester.

WANTED, an Assistant (qualified) ; outdoor ; state age, experience, and salary ; also a Junior. G. S. Butcher, Chemist, Chapel Street, Salford, Manchester.

AN Assistant, about 23, for good-class Dispensing business. Apply, stating full particulars, to the Surrey Chemists' Company, Church Street, Weybridge.

WANTED, an Assistant, accustomed to a mixed trade ; outdoor ; age, about 22. Apply, giving references, salary required, &c., T. Charles, Chemist, Burslem, Staffs.

TEMPORARY.—Wanted immediately, good Junior, for a week or ten days. Terms, references, and usual particulars to Ashfield, King's Road Pharmacy, Reading.

WANTED, Dispenser and Bookkeeper for Doctor, in manufacturing town. State salary and experience, 24/61, Office of **THE CHEMIST AND DRUGGIST**, 42 Cannon Street, E.C.

AN Assistant (indoors). Apply, with usual particulars as to experience, age, height, salary, &c., enclosing photo (to be returned), to J. G. Sangster, Dispensing Chemist, Southsea.

WANTED, Assistant ; good counterman, with knowledge of Photography and Store trade ; age about 26. Send photo and full particulars to G. R. Foulston, Chemist, Hull.

IMMEDIATELY, gentlemanly Assistant, qualified and well accustomed to first-class Dispensing trade. Apply, with carte and usual particulars, Jameson & Curtis, Hastings.

QUALIFIED Assistant for a Dispensing and Light Retail business. Apply, with usual particulars, and enclose photo, to John Cooper, Pharmaceutical Chemist, Weston-super-Mare.

ASSISTANT wanted (Junior), aged about 21, for Light Retail, and Dispensing business ; indoors. Please state age, height, salary required, and references, Davies, Chemist, Rhyl.

WANTED, at once, Junior, about 21 ; one accustomed to Photographic trade preferred. State full particulars, also salary required, to Rees Thomas & Son, Merthyr Tydfil, South Wales.

IMMEDIATELY, Junior Assistant wanted ; qualified, with good experience ; indoors. Apply, with full particulars and photo, "Statim," c/o Heaton, Spire & Francis, 38 Southwark Street, E.C.

OUTDOOR Assistant, for the Retail counter, and to solicit orders one or two days a week. Apply, with photo, stating age, height, and experience, to E. J. Kitson, the City Drug Stores, Worcester.

WANTED, a qualified Assistant (30) for a Mixed Country business ; one having a little capital and desiring a Partnership would be entertained. Apply, Slater & Co., High Street, Stone, Staffs.

WANTED, Junior for light Retail Dispensing business ; neat handwriting indispensable ; knowledge of Homoeopathy preferred, but not essential. Apply, with usual particulars, Tirrell, Hanley.

QUALIFIED Assistants open for situations in South Africa should apply in the first place by letter to B. S. Lennan & Co. (Limited), 75 Leadenhall Street, London, E.C., who occasionally have vacancies.

SMART Counterman wanted, used to Store trade and with complete knowledge of Photography ; hours short ; no Sunday duty. Apply, 25/38, Office of **THE CHEMIST AND DRUGGIST**, 42 Cannon Street, E.C.

FIRST-CLASS opening in English Chemist's in Japan for qualified Assistant, about 25, with really good London experience ; short hours ; liberal salary. Full particulars to Dakin Brothers, 87A Leadenhall Street, E.C.

OUTDOOR Dispenser required by a medical man for about three months ; age under 30 ; salary £1 12s. 6d. per week. Apply, by letter only, to "M.D.," 20 Union Road, Rotherhithe, S.E. Enclosures cannot be returned.

MANAGER for small Mixed business in the country ; well up in prescribing and cattle medicines ; qualified ; single. Full particulars as to age, salary, references, &c., to Alexander, 3 William Street, City Road, Bristol.

WANTED, immediately, in first-class business in West of England, Improver, with some experience ; must write well, and have excellent references as to character. "Tinctura," Meggeson, Miles Lane, London, E.C.

WANTED, a qualified Managing Assistant ; about 30 ; indoors ; Dispensing and Light Retail business ; suburb near Liverpool. Address, with references, &c., "Salol," c/o Messrs. Jackson & Sons, Brooks' Alley, Liverpool.

WANTED, at once, an Assistant with good Counter experience ; outdoors ; London ; another kept. Give full particulars as to experience, age, salary, &c., to W. E. C. (264/13), Office of **THE CHEMIST AND DRUGGIST**, 42 Cannon Street, E.C.

WANTED, immediately, for India a qualified Man (single) to manage a Drug Department in a large retail establishment ; about 27 years of age ; thoroughly competent and of gentlemanly appearance ; 5 years' agreement ; salary to commence at 300 rupees per month, increased annually by 25 rupees per month. Apply, giving full particulars, to D., Box 1035, Self's Advertising Offices, London.

ASSISTANT, early in February; about 26 years of age; good Dispenser and Counterman; state age, height, experience, and salary required (outdoors) enclosing c. de v. (to be returned), Targett & Wiseman, Chemists, Weymouth.

WANTED, a qualified Dispenser for the Hyson Green Branch of the Nottingham General Dispensary; to work about five hours per diem; salary £60 per annum. Apply, by letter, to the Secretary, Dispensary, Broad Street.

WANTED, Assistant (21), indoors, for light Retail and Dispensing business. Apply, stating experience, references, salary required, when disengaged, if abstainer, and enclose photo (to be returned), "Chemist," 40 King Street, Plymouth.

JUNIOR Assistant, for a good-class Country business; aged about 20. State age, height, experience, salary required (indoor), give references, and enclose photo (to be returned), to E. J. King, Pharmaceutical Chemist, Midsomer Norton, near Bath.

WANTED, qualified Assistant, about 24 years of age; good Dispenser and smart Counterman; apartments, board and attendance provided; state full particulars and enclose photo, if convenient. John Bain, 4 Quadrant, Lime Street, Liverpool.

A JUNIOR (indoors), comfortable home, age about 19 years, for a small Light Retail Drug Store; light hours; half-day weekly. Please send full particulars, with references and photo, to T. Bailey, The North End Cash Drug Stores, Coventry.

QUALIFIED Assistant required for Light Retail and Dispensing; reliable and energetic. Apply, with references, stating age, height, salary required, and enclose photo to E. M., c/o Messrs. Meggeson & Co., 14 Miles Lane, Upper Thames Street, E.C.

JUNIOR Assistant wanted for good-class Suburban business; abstainer preferred; two kept. Please state when disengaged, age, height, experience, reference, salary required (indoors), and enclose photo, to Atkinson, 25 Westow Hill, Upper Norwood S.E.

MIDLAND Counties; wanted at once a Qualified Assistant; about 25; for good-class trade; outdoor; no Sunday duty. Apply, stating full particulars, references, salary required, and enclose photo to "Gentian," c/o Messrs. Lynch & Co., Aldersgate Street, London, E.C.

SMART Man of good address as Senior in a high-class Drug Store; qualified; possessing thorough knowledge of the business; a good counterman indispensable; four assistants kept; highest references required; enclose photo. Anthony & Co., Chemists, Carlisle.

SMART, trustworthy Junior wanted, of good appearance and address; one used to high-class business preferred; references must be satisfactory; liberal salary, and permanency to suitable man. Apply, personally, or by letter enclose carte, to Wells Wood, 8 Albion Parade, London, N.

MANAGER (qualified), about 30, for good-class Light Retail; London; entire charge; outdoor; hours, 9 to 10; must be well recommended; suit a married man desiring a permanency. Photo and full particulars to "Retort," 261/32, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER for Branch wanted, qualified or not, but must be a smart, pushing man; an interest in the business would be given to a suitable man, who must have good references; married preferred. Address, stating age and salary, S. & Co., c/o Tomlinson & Sons, Medical Fitters, Bond Street, Birmingham.

IMMEDIATELY, a qualified gentlemanly Assistant as Senior; indoors; must be well up in dispensing, smart and good counterman, for a good-class business; one seeking a permanency preferred; state age (not under 24 years), height, salary required, references, &c., enclosing photo (to be returned), E. Mitchell-Smith, chemist, Weymouth.

WHOLESALE.

SCOTLAND.—Commission agent can hear of another commission. 23/44, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CLERK in Wholesale Drug Department wanted. Address, stating experience, references, and salary expected, Messrs. Reynolds & Branson, Box 153, Leeds.

WEST OF ENGLAND.—Wanted gentlemen calling on chemists with room for a commission. 19/11, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

QUALIFIED man wanted active, honest, sober, good counterman and salesman, good salary and commission offered to a reliable man. Apply at once, Ince, Dudley, Worcestershire.

WANTED a junior clerk, must write a good hand; preference given to one who has been in the wholesale drug or sundry trade; wages 40/ a year to commence with. Apply by letter, "S. & Co.," 23/27, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, in Wholesale office, smart, energetic young man with some knowledge of Drug trade; must be accustomed to correspondence, and with some literary ability preferred. State age, salary, and experience to "Adeps" (25/40), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CAPE TOWN.—Assistant wanted by a firm of Wholesale Druggists to superintend Wet and Dry Counters; man who has had experience in good Wholesale house; qualified preferred; salary, £140, £160, £180; three years' agreement to be signed; second-class passage paid. Apply, stating particulars, to E. M. D., c/o John Murdoch & Co., 52 Leadenhall Street, E.C.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 6 words beyond.

RETAIL.

JUNIOR; 21; London preferred; time for study. H. L. S., 78 High Street, Dorking.

DISPENSER to Doctor, or wholesale; 25; state salary. 52 Eight Avenue, Newcastle.

GOOD experience; store, &c.; 26, tall; North or Mid. Mancrostrian, 2 Omega Street, Southsea.

STORE Chemist's Manager; qualified; disengaged. M., 14 King's Road, St. Margaret's, Middlesex.

PART-TIME, Assistant, or Dispenser; disengaged at 6. "Student," 35 Trinity Street, Borough, S.E.

LADY Dispenser and Bookkeeper; qualified; highest testimonials. A.E.O., 24 High Street, Fimlico.

ASSISTANT (23), dispensing and retail; outdoors; good experience; R., Post Office, Dingestow, Mon.

DISPENSER to Surgeon or Chemist's Manager; qualified; disengaged. G. B., 3, Leigh Street, W.C.

JUNIOR; 21; 4 years' experience, 6 months' London; disengaged. "Rhei," 37 Royal Mint Street.

ASSISTANT; 24; 6 years' London experience. Evans, Tanyfaen, Upper Corris, R.S.O., Merioneth.

MANAGER, temporary, disengaged Feb. 1; highest references. 1, Berkeley Road, Crouch End, N.

AS Assistant or Manager; good dispenser; qualified. N. G., 58, Richmond Street, Alexandra Park, Manchester.

AS Junior; 21; disengaged February 22nd; satisfactory references. R., 2 High Street, Insch, Aberdeenshire.

JUNIOR, 24; London experience; good references; London preferred; Kilner, 33 Preston Place, Bradford, Yorks.

ASSISTANT, 24, good experience, disengaged; Yorkshire, and outdoors preferred. Fall, Barrcroft, Ripon.

ASSISTANT, unqualified; 9 years' experience. West, care of Smith, Chemist, Chester Road, Manchester.

DISPENSER in good-class business, or to firm of Surgeons; good references. Morris, Emlyn House, Carnarvon.

MANAGER, Senior; 12 years' experience; 29; Minor; permanency; disengaged. Price, Mause, Minsterley, Salop.

JUNIOR; 21; 4 years' experience; West of England preferred; state salary. Davies, Down, Manordilo, Carmarthen.

MANAGER, Senior, or Dispenser; aged 35; qualified; married; Dentistry. "Manager," 7 Commercial Street, Shipley.

PART-TIME, afternoons, 2 to 5; City or S.E. "Inglinvin" (246/32), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR, tall, 5½ years' experience; good references; time for study preferred. Clement Harrison, Springfield Villa, Horncastle.

MANAGER, capable, energetic; 5 ft. 8 in.; qualified; married; south preferred. "Dentist," 7 Commercial Street, Shipley, York.

MANAGER, Senior, or Assistant with prospects; aged 31; qualified. 263/27, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

IMPROVER in a good house of business; London suburbs preferred. Apply, X. (251/10), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER; 21 years' varied experience; qualified. "Disengaged" (251/29) Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SENIOR or Branch Manager; outdoors preferred; 27; 6 years' West-end experience; good references. Adair, 115 Gloucester Road, South Kensington.

SITUATIONS WANTED CONT'D**RETAIL—continued.**

LOCUM or permanent; disengaged; aged 29. "Extractor," 2 Horton Street, Lewisham.

EVENING work in Birmingham; 10 years' experience. R. A., 69 Somerville Road, Small Heath.

MANAGER, Locum, or Dispenser (qualified); married. "Alpha," 117 Lever Street, St. Luke's, E.C.

ASSISTANT; unqualified; disengaged; outdoors preferred; 12 years' experience. Wilson, Bexwell Road, Downham.

AS Junior; with opportunity to attend classes; disengaged February 20. "Fortune," 6 Russell Street, Rugby.

SITUATION; outdoor or indoor Apprentice; 1 year's experience; North of England. "Photo," Manse, Houghton-le-Spring, Durham.

BIRMINGHAM.—As Junior; quick retail; experienced; references; age 23; 5 ft. 6 in. N., 201 St. Vincent Street, Ladywood, Birmingham.

MANAGER, Senior, or Locum; qualified; 14 years' good experience; highest references; tall. Camm, Lower Comberton, Kidderminster.

JUNIOR; 21; 5 ft. 8 in.; Dispensing and Retail; nearly 6 years' good experience; good references. R. Glaister, 37 Heaton Road, Peckham Rye, S.E.

MANAGER, Locum, or Dispenser for Surgeon; disengaged. "Daleth" (260/40), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MAJOR (23½) seeks engagement as Manager or other responsible position for second week in February. Armitage, Chemist, Penistone, Sheffield.

ASSISTANT; 22; unqualified; London experience; good references; disengaged second week February; abstainer. Williams, 143, High Street, Merthyr.

MINOR Student; town; Apothecaries' Hall certificate; Dispensing and counter; 16 years' experience. "Minor," 15 Badsworth Road, Camberwell, S.E.

MANAGER, Locum, or Dispenser; Chemists, Surgeon, or Institution; first-class references and experience; qualified. Shrimpton, 6 Grove Street, Oxford.

ASSISTANT, Senior, or Manager; age 30; first-class experience and references. "Dent" (260/21), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PART-TIME, or Evening Engagement, about 4 nights weekly; qualified; 25; good references; London experience; "Student," 15 Rochester Square, N.W.

ENGAGEMENT wanted by Lady with Minor qualification; chemist, doctor, or institution; near London preferred; good references. Sunnymead House, Oxford.

EMPLOYMENT wanted, by Lady, as Assistant-Dispenser to Institution, Chemist, or Medical Gentleman; good references. H., Mrs. Sykes, Middleham, Yorkshire.

WANTED by a qualified man, just passed, situation in London; indoors; age, 22½; six years' experience; highest references given. Harry Harman, Great Marlow.

QUALIFIED: as Manager of branch, near Nottingham; country and West-end (London) experience. X. Y. Z., 17 Brayburne Avenue, Larkhall Rise, Clapham, S.W.

ASSISTANT; 23; time for classes; Manchester; 6 years' experience; good references. Apply "H." (261/6), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT; unqualified; 24; 7 years' experience all-round Store trade; Lancashire preferred. "Papaver" (251/37), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

QUALIFIED and thoroughly experienced man seeks re-engagement; aged 40; unmarried; good Dispenser; permanency preferred; salary moderate; disengaged. "Masonic," 7 Pepler Road, Kent Road, S.E.

DISENGAGED; 23; 9 years' experience. A. B., 3 Crozier Street, Lambeth Palace Road.

ASSISTANT; 21; outdoors; disengaged; good experience. "Helium," 16 Wansey Street, S.E.

ENERGETIC Assistant; 23; disengaged; good references. Hanson, 25 Harpur Street, Bedford.

AS Locum, or otherwise; disengaged; qualified; aged 27; abstainer. Jones, 7 Olive Road, Cardiff.

MEDICAL Assistant or Dispenser; unqualified; well experienced. 46 Evelina Road, Nunhead, S.E.

DAY employment by competent Dispenser; engaged evenings. "Rex," 169 Vauxhall Bridge Road, S.W.

JUNIOR; 4½ years' brisk Store trade (Drug and Photographic). J. B., 27 Delverton Road, Newington, S.E.

AS Dispenser or Assistant; 35. 264/22, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

AS Assistant; 31; unqualified; outdoors; good references. Fuller, c/o Isons (Limited), Wellington, Salop.

MANAGER or Locum; qualified; aged 40; disengaged. "Ochemicus," 112 Foxberry Road, Brockley.

ASSISTANT; 29; height 5 ft. 11 in.; doctor's son; good experience; permanency. H., 272 Old Kent Road, S.E.

EXPERIENCED Assistant; 33½ Country preferred; abstainer; height 6 ft. "Ourare," Arhosa, Menai Bridge.

RELIABLE Assistant; 24; good experience and references; disengaged. G. T., 13 Elmstone Road, Fulham, S.W.

LOCUM-TENENS, or temporary Assistant; qualified; disengaged; good references. C. M., 1 Stratford Villas, Camden Square, N.W.

BRANCH Manager, Assistant, or Traveller; aged 32; 14 years' experience; qualified. Particulars to "Beta," 32 Wilna Road, Earlsfield, S.W.

ASSISTANT or Manager; qualified; 42; varied experience; indoors or out; permanency. E. Oripps, 3 Princes Street, Cavendish Square, W.

ASSISTANT; 22; 7 years' experience; North of England preferred. 256/36, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MAJOR (30), good experience, open towards end of February as Manager or Traveller. "Ereg" (257/29), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CHEMIST'S Assistant (or Dispenser to Surgeon), unqualified, seeks a permanency; outdoors; good references. "Alpha," Bank House, Shaw Street, Worcester.

ASSISTANT; 28; Extractor, Prescriber, Dispenser; unqualified; disengaged; abstainer; good references; permanency. W. M. T., 1 Culmore Road, London, S.E.

QUALIFIED Chemist, age 40, desires engagement as Manager with view to purchase; varied experience; excellent testimonials. "Masonic" (263/33), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT; 25; disengaged early February; 10 years London and provincial, Light Retail and Dispensing; permanency; good references; Particulars "E" (258/17), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SENIOR Assistant or Manager; 33; qualified; good experience; last ten years in own business; thorough knowledge of Photography; disengaged early in February. L. A. E. (260/25), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DISPENSER: Apothecaries' Hall qualification; Medallist in Chemistry, Materia Medica, and Pharmacy; thorough knowledge of Photography; abstainer; 6 years' experience; engagement required in hospital or otherwise; London preferred. Saunders, Copford, Colchester.

MANAGER, Dispenser, or Head Counterman; Chemists' Stores, or Institution; first class references and experience; good Dispenser, Prescriber, and smart Counterman; outdoor; permanency. "Advance," (261/4), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

NO Salary.—Young man, willing, fair dispenser, not much used to counter trade, willing to give services in exchange for board and lodgings; desires a place as assistant where no other is kept, and where he could obtain practice under principal; a seaport town preferred. B., Vicarage, Winterbourne Earls, Salisbury.

WHOLESALE.

IN Laboratory or Warehouse; moderate salary; Retail experience only. D., Ty-Coch, Llangollen.

APPPOINTMENT as Traveller; 26; good address; 10 years' Retail experience. W., 17 Ramsden Terrace, Leeds.

AS Representative; 9 years' first-class Retail experience; excellent references. Pearson, 288 Elgin Avenue, Maida Vale, W.

WHOLESALE.—Wet or Chemical, Counter or finishing-off Counter; 10 years' experience. "Tinctures," 18 Montrave Road, Penge.

LADY, experienced, desires engagement in Laboratory. Apply, 259 2, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

QUALIFIED Chemist seeks situation in Laboratory; London; Wholesale; 8 years' Retail. O. Long, 133 Christchurch Road, Boscombe, Bournemouth.

CLERK; thorough bookkeeper; 10 years' Wholesale experience; salary £100. 261/11, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

ABROAD or Continent; 25; 10 years' experience, 4 years' India; Mixed trade; would travel; good references. "Masonic," 113 Great Portland Street, W.

ADVERTISER (26), competent, requires position in Warehouse; good Wet Counter experience. A. B. (240/13), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

YOUNG man (21), having had good experience in a large Wholesale and Retail Chemist's, desires a position in a Warehouse; first-class references. R., 34 New Road, Stepney, E.

ASSISTANT; 30; having had six years' experience with Hearn, Squire & France, desires position in warehouse, any department. R., 45 St. George's Place, Knightsbridge.

STOCKKEEPER, Warehouseman, &c.; accustomed to accounts; knowledge of the trade. Apply, 245/26, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

GENTLEMAN requires berth as Traveller; experienced; very good appearance and address; highest references. 238/37, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

TRAVELLER; Drugs, Sundries, Specialities; 7 years' connection; North of England; whole of Ireland; highest references. "Sanitas," 261/3, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

AN Analytical Chemist, of some years' experience, desires a position as Chemist or Manufacturer; has had practical experience in Pharmacy. 233/30, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

GENTLEMAN, with 20 years' good all-round experience in Wholesale and Retail, requires engagement with good house in Office, Warehouse, or as Traveller. "Lycopodium" (249/5) Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

AS Traveller, with first-class house; 28; gentlemanly appearance and address; 7 years' travelling experience; thorough knowledge all branches drug trade; abstainer; highest references; guarantee. D. Lloyd, Fern Villas, Penn Fields, Wolverhampton.

INVOICE, Ledger, or General Clerk.—A young man (married) requires situation as above; 13½ years' good experience in the Wholesale trade; high-class references; moderate salary. Apply, F. (12/23), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

TRAVELLER; sound connection; driving London monthly with a speciality which will not clash with any ordinary business; is open to represent a good firm in conjunction with same. "Vox" (264/23), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

A GENTLEMAN, having large and old-established connection amongst Chemists and Stores in London and Suburbs, is open to represent a firm of good standing; Drugs or Sundries preferred. Address, 263/19, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

A GENTLEMAN with office at his disposal, in central position, Manchester, would like to represent good London Drug House; good knowledge of the trade; references; commission only required. Address, "Chemicus," c/o The Flexible Paper Co., 43 Lower Mosley Street, Manchester.

TRAVELLER.—Active, energetic gentleman wishes to represent in provinces first-class Wholesale Drug or Sundries house; 20 years' Wholesale, Retail, and Medical experience; good appearance; first-class salesman; aged 36; highest references. R., 62 Vere Street, Eccles New Road, Salford, Manchester.

TO Pill Manufacturers.—A man, age 35, who has held his present situation as pill-maker and pearl-coater for 16 years, desires a re-engagement with a good firm; can make and pearl-coat pills of every description, either by hand or machinery; highest references for character and workmanship. 259/4, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

DAISY.—For particulars of a unique display to draw crowds to the window, write to "Daisy," Leeds. Messrs. Hickman, Chymists, Bridgewater, wrote: "The model is fetching the people, and just the thing to make Daisy HUM."

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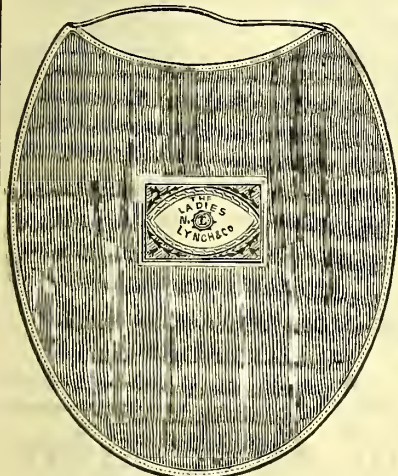
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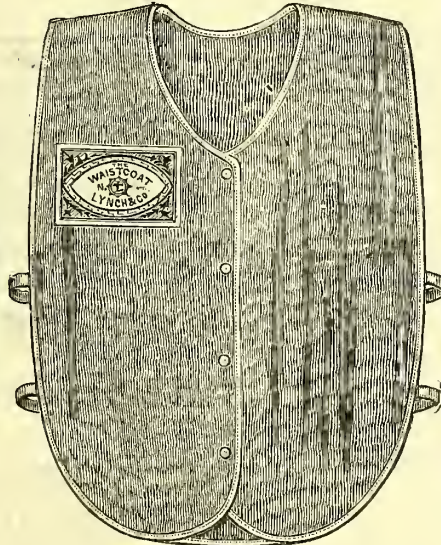


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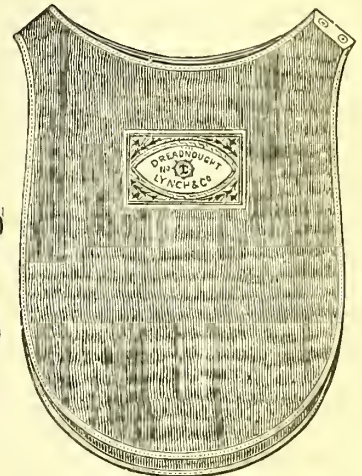
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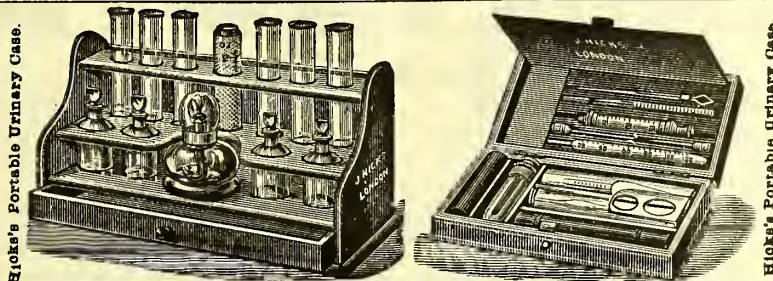
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These Balloons are fitted with a small automatic tube, which by a simple mechanical arrangement will keep the Balloon inflated for hours. Require no tying. If inflated before leaving the establishment, the purchaser is compelled to carry it expanded through the streets, thus making a splendid advertisement, as well as an amusing Rattle Drum for the children.

The New Balloons can be had in assorted coloured Suns, Moons, and Stars on one side, and customer's advertisement on the other, up to 60 letters; or assorted plain colours, with advertisement one side and trade figures the other, such as Carboys, Pestle and Mortar, Hats, Caps, Boots and Shoes, Boys' Suits, &c., &c., to suit any trade. Improved long nozzle Balloons from 12/6 per gross.

DYING DEVIL, with Nose and Ears.—Dies when he squeaks, and squeaks when he dies. 12/6 to 16/- gross.

ALABAMA COON, with Feathers, 12/6 to 14/6 gross.**SQUEAKERS** from 3/- gross. All the above with advertisements.

sample Rooms—**Newton St., PICCADILLY, MANCHESTER.**
Samples sent on receipt of Postal Order 1s. to 5s.

Indents only through British Merchants. Special terms to Shippers and the Wholesale.

WIESBADEN GOUT WATER

(WIESBADENER GICHTWASSER).

This water, when taken in sufficient quantity, is an absolutely certain remedy for Gravel and Uric Acid Calculi, and a most certain prophylactic against both Acute and Chronic attacks of Gout.

WIESBADEN GOUT WATER

Can be obtained from any Chemist or Mineral Water Dealer throughout the United Kingdom in bottles containing $\frac{1}{2}$ litre.

In cases of 1 doz. each, 12/6 per doz.; in cases of 3 doz. each, 12/- per doz., at cellars in London.

WIESBADENER BRUNNEN COMPTOIR.

LONDON AGENCY—**L. R. VOIGT & CO., 25 Great Tower St., LONDON, E.C.**

DEPOTS—

LONDON—Wholesale Depot, Messrs. Ingram & Royle, Limited, 52 Farringdon Street, E.C.

Messrs. E. Gallais & Co., 90 Piccadilly, W.

ABERDEEN—Messrs. Paterson & Sons, Spring Gardens.

BIRMINGHAM—Messrs. Southall Bros. & Barclay, Lower Priory.

BOMBAY—Messrs. Kemp & Co., Limited, 7 Elphinstone Circle.

BOURNEMOUTH—Messrs. G. E. Bridge & Co., 128 Old Christchurch Road.

BRIGHTON, EASTBOURNE, and HASTINGS—Messrs. R. Fry & Co., Limited, Middle Street.

BRISTOL—Messrs. Ferris & Co., Union Street.

CALCUTTA—Messrs. Hadenfeldt & Co.

CAMBRIDGE—Mr. H. T. Parson, 5 Peas Hill.

CHELtenham—Messrs. Butcher & Pattison, 418 High Street.

CORK—Messrs. Kiloh & Co., Limited, 108 Patrick Street.

DUBLIN—Messrs. Hamilton, Long & Co., Limited, 3 Lower Sackville Street, 107 Graham Street, and 1 Rathmines Terrace.

EDINBURGH—Messrs. Duncan, Flockhart & Co., 104 and 106 South Canongate.

EXETER—Messrs. Evans, Gadd & Co., 97–100 Fore Street.

GLASGOW—Glasgow Apothecaries' Company, 32 and 34 Virginia Street.

HULL—Messrs. Lofthouse & Saltmer, 12 Market Place.

JERSEY—Mr. John T. Baker, 27 Halkett Place.

LEEDS—Messrs. Reynolds & Branson, 14 Commercial Street.

LIVERPOOL—Messrs. Clay & Abraham, 87 Bold Street.

MANCHESTER—Messrs. Jewsbury & Brown, 113 Market Street.

NEWCASTLE-ON-TYNE—Messrs. John Ismay & Sons, 17 Great Market.

NORTHAMPTON—Mr. John Bingley, F.C.S., Bailiff Street.

NORWICH—Messrs. Smith & Sons, 44–48 Magdalen Street.

SHEFFIELD—Mr. G. T. Newsholme, 27 High Street.

SLIGO—Mr. H. BOYERS, 20 Knox Street.

SOUTHAMPTON—Messrs. Randall, Sloper & Co., Lansdowne

YORK—Messrs. Ravnes & Co., 13 Micklegate. [Buildings.]

SYPHONS SELTZOGENES



Messrs. J. BARRIE JOHNSTONE & CO., 20 Loftus St., Sydney, N.S.W.
Agents for New South Wales, Queensland, and New Zealand.
Messrs. NOYES BROS., 43 Queen Street, Melbourne, Victoria.
Agents for Victoria, South and West Australia, and Tasmania.

SODAWATER MACHINERY

AND APPLIANCES

BRATBY & HINCHLIFFE LTD

• ANCOATS 146 MINORIES

MANCHESTER LONDON

51 ROBERTSON STREET, GLASGOW.

PRICES.

SYPHONS — 1/6, 1/8, and 1/10 each.

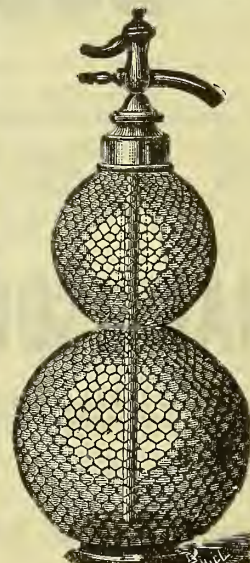
SELTZOGENES.

1	2	3	4	5	8 pint.
6/-	6/8	7/6	8/6	10/5	16/- each.

Including two funnels and stopper for charging.
The tops of these Seltzogenes are made of pure block tin, guaranteed.

American Agents—For New York and East, WM. G. SMITH, 11
Dimes St., New York.
For Chicago and West, VICTOR BAROIT, 409 Dearborn St., Chicago.

All our Seltzogenes are
manufactured on the well-
known "Fevre" System,
and each one is thoroughly
tested before leaving the
works.



BARNETT & FOSTER,

MANUFACTURERS.

THE "COMPACT" CONTINUOUS ACTION SODA-WATER MACHINE.

For use with the Liquefied
Carbonic Acid Gas.

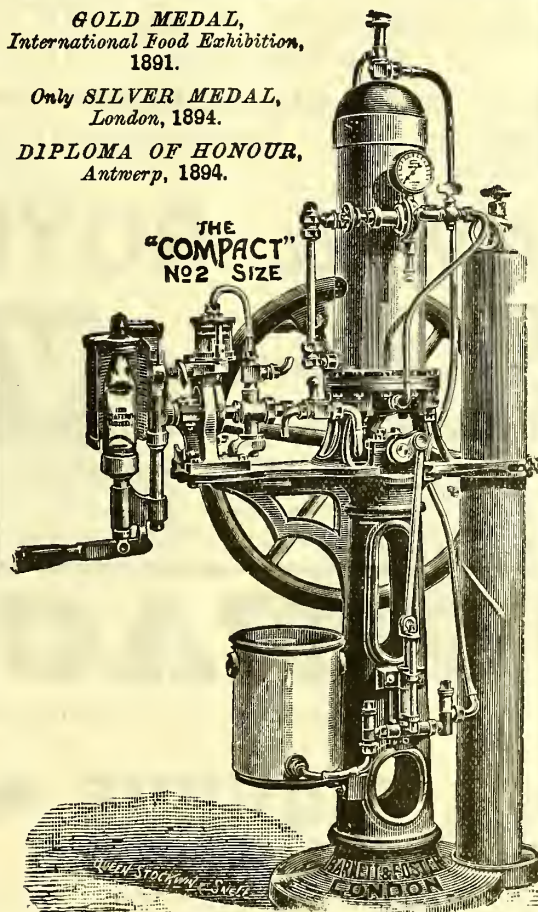
Specially designed for use where space is an object, and for those having a large retail trade, such as Chemists, Hospitals, Restaurateurs, Hotel Proprietors, &c. They are ready for work immediately, require no fixing, and produce Aërated Waters of the very highest quality at a minimum of cost.

NO DANGER.
NO MESS.
PERFECTLY
RELIABLE.

GOLD MEDAL,
International Food Exhibition,
1891.

Only SILVER MEDAL,
London, 1894.

DIPLOMA OF HONOUR,
Antwerp, 1894.



We guarantee to produce a better article with these than any other system adapted for using the Liquefied gas, and at a lower pressure, thus effecting an immense saving in bottles, and also reducing risk of accidents.

In use by
Leading Chemists in
all parts of the
United Kingdom.

**TWO FILLERS
INCLUDED.**

No. 1 Size, complete with Turnover and Syphon-filling Machine, and fitted with fast and loose Pulleys for driving by power ... Code word (*Supremacy*) **£60**
Producing Capacity by Hand-power 600 dozen per day.
" " Power 1,200 " "

No. 2 Size, complete with Turnover and Syphon-filling Machine ... Code word (*Royalist*) **£48**
Producing Capacity by Hand-power 350 dozen per day.
" " Power 700 " "

No. 3 Size, complete with Turnover or Syphon-filling Machine ... Code word (*Retailer*) **£38**
Producing Capacity by Hand-power 200 dozen per day.
Syrup Pump fitted to the Turnover Filling Machine on either of above (*Injecto*) £2 extra. If fitted with one Filling Machine only, the two largest Machines are charged £3 less than above prices.

SOLE INVENTORS AND MANUFACTURERS OF THE
"NIAGARA" BOTTLE AND THE LONDON-MADE SYPHON
KNOWN ALL OVER THE WORLD.

Illustrated Descriptive Catalogue of every requirement for the Mineral Water Trade on application.

NIAGARA WORKS, 26^T EAGLE WHARF ROAD, LONDON, N.

Hunyadi János

The revised prices of the above (to the Trade) have been fixed by Mr. Andreas Saxlehner, the Proprietor, as under:—

22/6 per case of 25 large bottles, or **12/-** per dozen.

35/- „ of 50 half-bottles, or **10/-** „

SPECIAL TERMS FOR QUANTITIES ON APPLICATION.

CARRIAGE PAID. TERMS.—STRICTLY NET.

INGRAM & ROYLE, L^{TD}.

VICHY

Head Office—

52 FARRINGDON ST.

LONDON, E.C.

VICHY

LIVERPOOL—19 South John Street.

BRISTOL—80 Redcliff Street.

Carriage Paid. Price List of all Natural Mineral Waters on Application.



VINACOCA

Sold in Bottles at 8s. 6d. each, or 40s. per dozen. Retail.

ALSO

COCA LIQUEUR

The best Restorative,
The best Nerve Tonic,
The best Renewer of Health is

ROLLAND'S COCA LIQUEUR.

Sold in Fancy Wickered Bottles, 7s. 6d. each, Retail.

COCA is prepared in various forms: COCA WINE, COCA LIQUEUR,
COCA LOZENGES, COCA TABLETS, COCA ELIXIR, COCA TEA.
COCA CHOCOLATE, COCA TOBACCO, &c.

SOLE PROPRIETORS OF

THE NEW VAPORISER, "OUR OWN."

ENGLISH MADE.

Prices from 15s. each; Eau de Lis 2s. 6d. per bottle.

Usual Trade Discount. Pamphlets for distribution, carriage paid.

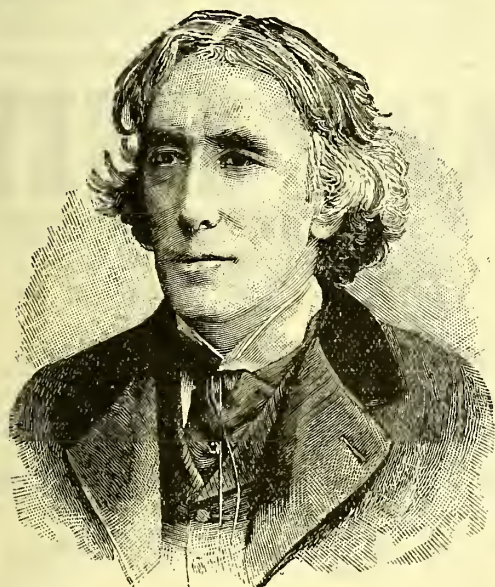
FULL PARTICULARS FROM

THE FRENCH HYGIENIC SOCIETY, 6 CONDUIT STREET, LONDON, W.
REGENT STREET,



MARIANI WINE

*Testimonials from over 2,000 Physicians, and from the
Greatest Celebrities of the Century.*



*"I can certainly add my testimony to the virtues
of Mariani Wine, which I have found excellent,
and am well convinced of its quality."*

HENRY IRVING.



*"The admirable Mariani Wine, which has so
often rescued me from exhaustion."*

CHARLES GOUNOD.

Retail price 4/- per bottle, or 45/- per dozen.

BEST WHOLESALE TERMS.

Per original six-dozen case, **£10 4s.** net cash, with 3 per cent. discount
off six-case lots.

Smaller quantities can be obtained of all the Patent-medicine Warehousemen.

EXPORT ORDERS OF ORIGINAL CASES SHIPPED IN BOND.

SOLE CONSIGNEES FOR GREAT BRITAIN AND COLONIES—

**WILCOX & CO., 83 Mortimer St., W. } LONDON.
GABRIEL JOZEAU, 49 Haymarket**

P.S.—Write for Catalogue, which is the only complete list of French Medicines in the United Kingdom.

RIDGE'S
PATENT
COOKED
FOOD

SATISFYING.
STRENGTHENING.
SOOTHING FOR INFANTS.
ACREEABLE.
DIGESTIBLE.
NOURISHING.

DR. RIDGE'S
PATENT COOKED FOOD
Is certified to contain all the essentials of a Pure Dietary necessary to secure a healthy and natural development of bone and muscle, a vital necessity to growing Infants and a comfort to all.

DR. RIDGE'S FOOD is the Oldest, Best, Most Widely-known, and has the **LARGEST SALE** in the World.

SOLD
EVERYWHERE.

The public are cautioned against all imitations.



"Makes them strong to push along."

Pamphlets and Showcards Post Free on application to
RIDGE'S ROYAL FOOD MILLS. LONDON. N

FOR INFANTS AND INVALIDS.

KYDDE'S FOOD

IS UNEQUALLED.

KYDDE & CO.

10 SOUTHWARK BRIDGE ROAD, LONDON, S.E.

IRISH HONEY

AND BEESWAX.

We offer Irish Honey in Kegs of about 80 lbs. net.

Single Kegs at .. 58/- per cwt.

Five " .. 55/- "

Ten " .. 54/- "

14-lb. Self-opening Tins, 2/- per cwt. extra.

7-lb. " " 3/- " "

The quality is very fine this Season. Some Honey of 1894 and 1895 at 32/- per cwt.

Beeswax, warranted genuine, at £9 per cwt.

Cash Discount, 2½ per cent. Packages free.

GEORGE WHITE & SONS, WATERFORD.

ABSOLUTELY PURE WATER

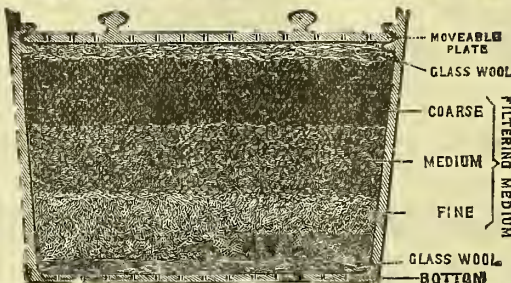
BY USING THE

MAWSON FILTER.

Free from Bacteria
or Disease Germs,

Free from Organic
Impurities,

Free from Poisonous
Lead Salts and Excess
of Lime.



Pure Spring Water produced from Rain Water by a perfect imitation of Nature's Process. This is the only Filter that will give these results.

In Glass and Earthenware for household use and large supplies, Iron and Enamelled Ware for ships, and Aluminium for tourists.

The Mawson Filter Co.
WORKS—
NEWCASTLE-ON-TYNE.

GUEST & CO.

CITY WORKS, GARRUTHERS STREET, MANCHESTER.

MAKERS OF MEDICATED LOZENGES AND JUJUBES.

B.P., T.H. Ph., and General Proprietary Lozenges. Finest Gum Jujubes and Pastilles—Glycerine and Black Currant, &c. Granular and all other Effervescing Preparations. Boiled Sugars, Floral Tablets.

SEND FOR LIST, SAMPLES, AND COMPARE.

TELEPHONE 235. TELEGRAMS "GUESTO."



THE WHOLESALE PRICE.

RETAIL PRICE.

PER DOZEN.

6d. Packets (Two Dozen in a box)	...	...	5/-
9d. Tins (Two Dozen in a box)	...	...	7/6
1/6 Tins (One Dozen in a box)	...	...	15/-

DISCOUNTS.

5 per cent. Discount on Orders up to £5.

7½ per cent. Discount on Orders for £5 and upwards.

Terms—Cash within 7 days.

Carriage Paid on Orders value £2 and upwards.

N.B.—The above Discounts are from 3¼ to 6¼ per cent. better than can be obtained from any other source, whilst the merits of DR. TIBBLES' VI-COCOA are far greater than any other similar preparation in the world.

LIMIT OF CUTTING.

The Proprietors hereby give notice to the Trade that the limit of "cutting" prices of DR. TIBBLES' VI-COCOA has been fixed as under:—

6d. Packets to be sold at not less than 5½d.

9d. Tins ,, ,, not less ,, 8½d.

1/6 Tins ,, ,, not less ,, 1/4½

Full Prices to be obtained wherever possible.

FURTHERMORE,

Any Chemist, Grocer, or Stores cutting below these prices will be refused supplies direct from ourselves. And in this connection it is important to note that in £5 lots and upwards no trader in the kingdom, "Wholesale or Retail," can obtain more than the 7½ per cent. discount we offer.

SEND A SPECIAL ADVERTISING OFFER to Customers (available until February 1st) has just been sent out. If you have not received it, please write.

Read the foregoing, send your order to

DR. TIBBLES' VI-Cocoa Ltd.,

SUFFOLK HOUSE, CANNON ST., LONDON, E.C.

And obtain your fair share of the profits that are daily being made by our customers everywhere.

**SPECIAL NEW LINE
IN
GIBSON'S
CELEBRATED SWEETS.**

ONE POUND, HALF-POUND, AND
ENAMELLED TINS.

QUARTER-POUND BEAUTIFULLY
WITH PATENT LIDS.

Bouquet Tablets.

Cream Toffee.

Lemon Drops.

Barley Sugar.

Malt Tablets.

Pear Drops.

Mint Rock.

Lime Fruit.

Pine Apple.

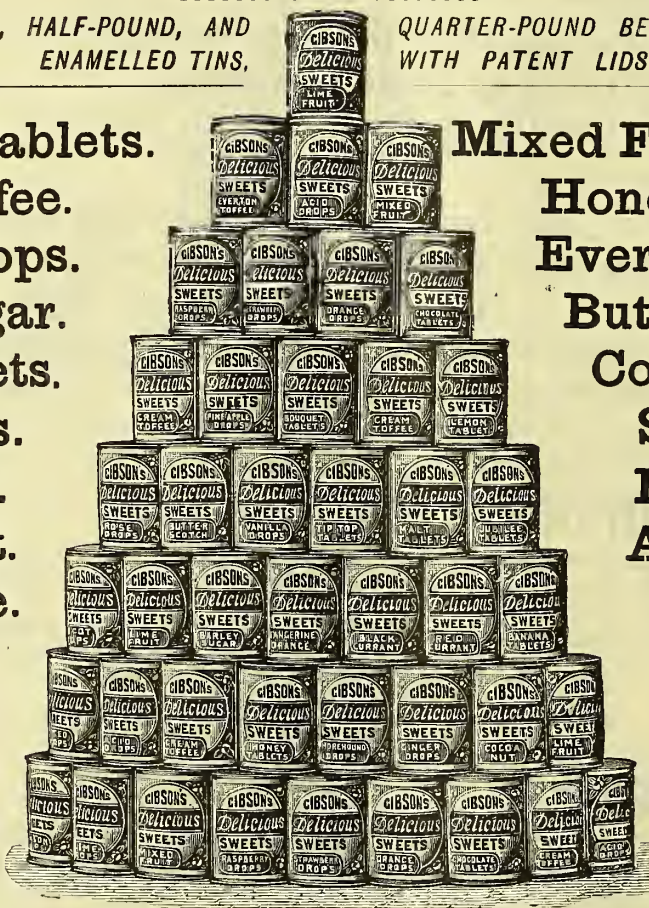
Raspberry.

Damson.

Ginger.

Musk.

Ac., Ac.



Mixed Fruit Drops.

Honey Tablets.

Everton Toffee.

Butter Scotch.

Cough Drops.

Strawberry.

Horehound.

Acid Drops.

Greengage.

Chocolate.

Orange.

Cherry.

Rose.

&c., &c.

For many years these goods have been shipped abroad only in bottles; now the firm have decided to pack them in 1-lb., $\frac{1}{2}$ -lb., and $\frac{1}{4}$ -lb. tins at 7/6, 4/6, and 2/9 per dozen respectively to the Retail trade, with usual discount, special terms being made with Wholesale buyers. Messrs. GIBSON & SONS believe by offering their **WORLD-RENOWNED BOILED SUGARS** in portable, unbreakable packages, beautifully labelled for Counter show, they will not only enormously increase their own business, but supply a long-felt want to buyers abroad, and remove at once the only obstacle standing in the way of everybody being able to stock these goods without the slightest fear of sustaining any personal loss.

Indents may be filled and sent direct to the Works, MANCHESTER, to the Firm's
LONDON WAREHOUSE—

1 GLASSHOUSE YARD, ALDERSGATE STREET,

Or to any LONDON SHIPPERS.

PETER TYRER'S SAUCES

WORCESTER, READING, HARVIE, YORKSHIRE, AND "BOROUGH" KETCHUP.

SILVER MEDAL.

	Per gross.	Extra quality.		Per gross.	Extra quality.
1d. Sample Bottles, dozen parcels	5/3	6/3	1/2 Bottles, flat or round, reputed half-pints ..	16/-	26/-
1d. Giant " 1-gross boxes	5/9	6/9	1 Pint Imperial, round stoppered bottles ..	26/-	38/-
" " dozen parcels	6/-	8/6	124-Gallon Casks (casks free) each	52/-	62/-
" " 1-gross boxes	6/6	9/-		20/-	32/-

ROYAL CAFE SAUCE, a Rich Fruity and Exquisite Flavour.

Square Glass Stoppered Bottles, containing nearly 1-pint Imperial, 42/- per gross. Sample Bottles at 7/- per gross.

MANUFACTORY — 30 SOUTHALL PLACE, LONG LANE, BOROUGH, LONDON, S.E.

CHIEF SCOTCH AGENCY — West Nile Street, GLASGOW.

HOLY-ROOD TABLE WATER.



Shown by analysis to be equal to the best imported, and is **FAR MORE ECONOMICAL.**

Highly Commended by LEADING MEDICAL AUTHORITIES

"It is a well aerated and pleasant Table Water, without a trace of bitterness."—*British Medical Journal.*

J. F. MACFARLAN & CO.
Abbeyhill Chemical Works,
EDINBURGH.

"A CAPITAL IDEA"!!
Said friend JONES, the GO-AHEAD CHEMIST, "I'VE DOUBLED MY TRADE last year since I commenced packing all my customers' prescriptions in Glover's small wood boxes."
And JONES CHUCKLED!!

WOODEN BOXES
ALL SIZES
MADE TO ORDER

TRADE MARK

PRICE 14/- per doz. nests of 6 Boxes, planned and hinged, from 5" x 2 1/2" x 1 1/2" to 9 1/2" x 6 1/2" x 4 1/2". Nests of 6 for Bottles, 4 oz. to 16 oz., at same price. Single nest, 1/6. Special Terms for Large Quantities to Shippers.

"CAPITAL, INDEED"!!!
Said the Colonial Shipper. "Those light nested boxes, shipped in cases (each containing 1-gross nests), are just what is wanted, and I am getting repeat orders doubled. We are all indebted to the Makers, Messrs. C. H. GLOVER & CO., of Hatcham Sawmills, Ormside St., Old Kent Road, LONDON, S.E."!!

"LIVE, and LET LIVE." New & Improved Package.

THE FRAME FOOD CO., LTD., desire that all retailers should have a reasonable, living profit on the sale of "Frame Food" Preparations. To ensure this they have fixed minimum retail prices, below which they will not permit their goods to be sold. They also give no graduated discounts on large orders, but allow their highest discount on purchases of £2 value and upwards, thus placing all retailers upon the same terms.

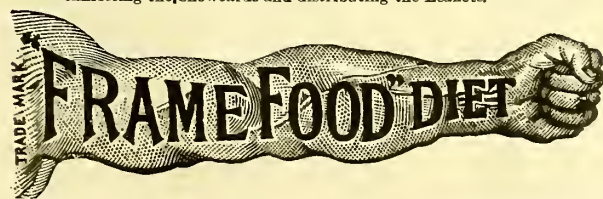
Goods sent carriage forward. No Packages charged or to return.

These terms ensure an average Profit of over 30 per cent. on goods sold at advertised prices, and of 20 per cent. at minimum prices.

Write for Trade Terms and Anti-cutting Agreement.

Satisfactory references or cash required for new customers.

An Attractive FRAMED SHOWCARD, and Leaflets with Retailer's printed Address (in red ink), sent Carriage Free on application—(MENTION THIS PAPER). The Frame Food Co. trust that retailers will show their appreciation of the Company's efforts to ensure them a reasonable profit on the sale of "Frame Food" Preparations, by exhibiting the Showcards and distributing the Leaflets.



LARGER PROFIT TO RETAILERS.



THE FRAME FOOD CO. have adopted a new air-tight covered Jar for "Frame Food" Jelly, which will ensure its keeping any length of time. In fixing the Retail and Trade Prices of the new package, they have taken the opportunity of securing a larger margin of Profit to Retailers, who will find it to their advantage to recommend the Jelly to their customers.

The 1s. and 7d. sizes are now withdrawn.

"Frame Food" Jelly possesses the nutritive and digestible properties of Malt Extract, and is much cheaper and more palatable.

Advertised Retail Price, 9d.;

Minimum Retail Price, 8 1/2d.

TRADE TERMS ON APPLICATION.

FRAME FOOD CO., LTD., LOMBARD RD., BATTERSEA, LONDON, S.W.

IMPORTANT ALTERATION

in the

RETAIL PRICE OF

ALCOCK'S

POROUS

PLASTERS

7½d.

On and after January 16th., 1897, Allcock's Porous Plasters (Small Size) will be advertised to be sold AT 7½d.

TERMS TO THE WHOLESALE TRADE :-

12 gross	=	=	£3 9s.	per gross.
48 „	=	=	£3 6s.	„
1/6 Size (formerly 1/9),			14s.	per dozen.
4/- „ („ 4/6),			£2 2s.	„

These prices
have been in
force since July
1st., 1896.

Wholesale Dealers will be required to sign the subjoined Agreement before any order is executed.

92B, HAMILTON STREET,
BIRKENHEAD.

To THE POROUS PLASTER COMPANY,

of the Village of Sing Sing,

HENRY D. BRANDRETH, Manager.

WE HEREBY agree and bind ourselves and our agents not to supply ALLCOCK'S POROUS PLASTERS directly or indirectly to any person, firm, or corporation, at less prices than those named below.

1st—By the ½ gross or more at the rate of not less than £3 12s. per gross. Stamped.

2nd—By the 2 dozen plasters, at 6s. 3d. per dozen. Stamped.

3rd—By the ½ dozen plasters, or in less quantity, at 6s. 9d. per dozen. Stamped.

Telephone Number, 1852.

Telegraphic Address—CHEMICUS LONDON.

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Castell & Brown 4	Huggins's Soap Works (Lim.) .. 35	Newbery, F., & Sons 45	Werner, Pfeiderer & Perkins .. 30
Chamberlain & Co. 21	Hughes, E. G. 49	Northern College of Pharmacy Crehard, E. 49	White, G., & Sons 12
Chesebrough, Th. Co. 34	Ingram & Royle 10	Orridge & Co. Coloured Supplement	Wiesbaden Gout Water Co. 8
Christy, T., & Co. 49	Isaacs & Co. 32	Phillips G., & Co. 24	Wilcox & Co. 11
City School of Pharmacy 6	Jackson, J., & Co. 3, 22	Pinnacle Soap Stand Co. 24	Wilcox, W. H., & Co. 30
Cocking, J. T. 31			Willows, Francis & Butler 25
Cooper & Co. 48			Wood, V. 30

CLASSIFIED LIST OF ALL ADVERTISERS

Whose Announcements appear in "THE CHEMIST AND DRUGGIST." Those whose Names do not appear in the preceding Index are published in one of the other issues of this month.

ACIDS

Boulton, J., & Co., Lim.
ADVERTISING SPECIALITIES

Corsan, J. B.; Harris, J.

AERID & MINERALS

Apollinaris Co.

Barnett & Foster

Bratby & Hinchliffe, Lim.

Burrow, W., & J. (Malvern)

Chemists' Aerated Waters

Association, Lim.

Ellis & Son (Ruthin)

Hunyadi Janos

Iris & Co., Ltd.

Ingram & Royle, Lim.

Macfarlan, J. F., & Co.

Mills & Co. (Bourne)

Rosaach Springs, Lim.

Sallyco Water Co.

Wiesbaden Gout Water

DITTO PLANT

(See SYPHONS and ESSENCES)

Barnett & Foster

Bratby & Hinchliffe, Lim.

Tyler, Hayward, & Co.

AGENCIES ABROAD

Australian Drug Co. | Boissy

Kemphorne, Prosser & Co.

Lennon, G. B., & Co. (N.Z.)

Peake, Allen & Co.

Taylor & Colledge

ALKALOIDS

Howards & Sons (Cinchona)

Macfarlan, J. F., & Co.

Smith, T. & H.

ALMANACKS

Ford, Shapland & Co.

Silverlock, H. | Townsend, J.

AMMONIA

May & Baker, Lim.

White, A., & Sons

Woolley, Sons & Co.

ANALYSIS

Sutton, F., & Co.

APPARATUS

Bennett, Sons & Shears

Berend, O., & Co.

Woolley, J., Sons & Co.

ASTHMA CURE

Farnan & Co.

Potter & Clarke

BAKING POWDER

Goodall, Backhouse & Co.

BALSAM OF ANISEED

Powell, T., Lim.

BATH & FLESH GLOVES

Maw, S., Son & Thompson

Solpert Bros.

Wood, Vincent

BATH SALTS

Sykes' Bath Salt

Tidman & Son, Lim. (Sea Salt)

BEESWAX

Bowdler & Co.

Evans, Sons & Co.

Kemp & Son

Leonard, T.

Lüneburger Wachsbleiche

BICARB. SODA

Brunner, Mond & Co., Lim.

Howards & Sons

May & Baker, Lim.

BIPALATINOLIDS

Oppenheimer, Son & Co., Lim.

BISMUTH PREP.

Hearon, Squire & Francis

Hewlett & Sons

Howard & Sons

May & Baker, Lim.

Symes & Co. | Tyler, T., & Co.

White, Alfred, & Sons

BONE MARROW PREPS.

Lionor Carnis Co.

BORAX

Howards & Sons

BOTTLES

Ayrton & Saunders

Barnett & Foster

Barrett, R. H.

Bratby & Hinchliffe, Lim.

Breflits, Lim.

Gilbertson, H., & Sons

Hearn, Wright & Co.

Isaacs & Co.

Johnsen & Jørgensen

Kilner Bros.

Lynch & Co. (Lim. (Salts))

Maw, S., Son & Thompson

Poths, H., & Co.

Stipedium Stopper Co., Lim.

Toogood, W. | Youden, E

Volcanic Verrillon Co.

York Glass Co., Lim.

BOOKS

King, J. K., & Son

Lewis, H. K. | Loisette, A.

Martindale's Extra Pharm.

Squire's "Companion"

Whittaker & Co.

BOXES

Austin & Co. (Cardboard)

Ayrton & Saunders

Evans, Sons & Co.

Glover, C. H., & Co.

Kent, G. B., & Son

Kilner Bros.

Kilross & Black

Patent Stopper, Box, and

Stamping Co., Lim. (Tin)

Robinson & Sons

Timplate Decorating Co.

BRUSHES

Evans, Sons & Co.

Hovenden & Sons

Kent, G. B., & Sons

BUNSEN BURNERS

Berend & Co.

BUTTER COLR, &c

Baker, J. W.

Boulton, J., & Co., Lim.

Hartick & Co., Lim.

Miller & Co.

Tomlinson & Hayward

CACHETS

Christy, T., & Co.

Cooper & Co.

CACHOUS

Bleasdale & Co.

Blyton, Astley & Co.

Jackson, T.

Lloyd, P. H., & Co.

Raines & Co. | Warrick Bros.

CAMPHOR

Howards & Sons

May & Baker, Lim.

CAPSULES

Davies, Gibbins & Co.

Denonai, J. (Medicinal)

Droegge, Wm., & Co.

Duncan, Flockhart & Co.

Evans, Lescher & Webb

Hartick & Co., Lim. (Dun s)

Hooper, B., & Co.

Lloyd, T. Howard, & Co.

Lofthouse & Saltmer

Warrick Bros.

CARBOLIC ACID

Mason, C. E., & Co.

Sanitas Co., Lim.

Stevenson, H. E., & Co.

CRENIC ACID GAS

Carbonic Acid Gas Co.

CSCA SAGRADA

Anderson & Co.

Duncan, Flockhart & Co.

Evans, Lescher & Webb

Farris & Co.

Harker, Stagg & Morgan

Moss, J., & Co.

Parke, Davis & Co.

CASTOR OIL

British Castor Oil Co., Lim.

CERESINE WAX

Boehm, Fredk.

CHALK, PRECIP.

Levermore, Aug., & Co.

CHECK TILLS

O'Brien, T.

Stokes, G. R., & Co., Lim.

CHEMICALS

Boehm, Fredk.

Boehring, C. F., & Soehne

Boulton, J., & Co., Lim.

Brunner, Mond & Co., Lim.

Evans, Lescher & Webb

Evans, Sons & Co.

Farbenfabriken (Bayer & Co.)

Goodall, Backhouse & Co.

Graf, F. | Hill, A. S., & Son

Howards & Sons (Pharm.)

Kirkpatrick, Barr & Guthrie

Lofthouse & Saltmer

Lyon, J. L., & Co.

Macfarlan, J. F., & Co.

May & Baker, Lim.

Moss & Co.

Oppenheimer, Son & Co.

Sanitas Co., Lim.

Scottish Acid & Alkali Co., Ltd.

Smith, T. & H., & Co.

Stevenson, H. E., & Co.

Tyler, T., & Co.

Washington Chemical Co.

White, A., & Sons

Zimmermann, A. & M.

CHLOR. OF LIME

Government Sanitary Co.

National Chemical Co.

CHLORODYNE

Davenport (Browne's)

CHEST PROTECTRS

Ayrton & Saunders

Liverpool Patent Lint Co.

Lynch & Co., Lim.

Maw, S., Son & Thompson

Newbery, F., & Sons

Schutze & Co.

Solpert Bros.

Wood, Vincent

CHLOROFORM

Duncan, Flockhart & Co.

Macfarlan, J. F., & Co.

Smith, T. & H., & Co.

CINCHONA BARK

Graf, F.

COCA WINE

Burrough, J.

French Hygienic Society

Harker, Stagg & Morgan

Holloway, E. A.

Kemp & Son

Lorimer &amp

COMP. MEDICINES

Allen & Hanbury
Blyton, Astley & Co.
Burroughs, Wellcome & Co.
Davies, Gibbins & Co.
Hooper, B., & Co. | Leo & Co.
Lloyd, T. Howard, & Co.
Parke, Davis & Co.

CONCENT. LIQRS

Baiss Broe, & Co.
Davies, Gibbins & Co.
Fletcher, Fletcher & Co.
Lloyd, T. Howard, & Co.
Oppenheimer, Son & Co.
Randall & Son

CONFECTIONERY

Blyton, Astley & Co.
Castell & Brown, Lim. (Pro.
spectus)
Gibson & Sons'

Guest, T., & Co. | Hillaby, J.

CORKS

Ringrose & Cobb | Brooks, T.
CORN CURES
Beetham & Son
Gardner, C.
Potter & Clarke

COTTON WOOL

Robinson & Sons (Absorbent)

COUNTER FOUNTAINS FOR AERATED WATERS

Volcanic Aeration Co.

CRSHD LINSEED

Mumford, G. S.

CYDER

Symons, J., & Co., Lim.

DENTIFRICES, &c.

Beecham, T.
Brounley, E., & Co.
Hovenden & Sons
Jewsbury & Brown
Luthen & Co. | Stevens, P. A.
Sutton, O., & Co.

Wilson, A.
Wood, W. (Areca Nut)
Wright, Chas., & Co., Lim.

DENTISTRY

Browning, A. J.
Fentiman, A. G.
Fentiman & Co.

"DIMATOS"

Southall Bros. & Barclay

DISINFECTANTS

Beezley & Co. | Brooks, T.
Government Sanitary Co.
Hebden, W. C.
Jeyes Sanitary Compounds Co.
Kühn, B. (Chinosol-Kresochine)
Mackey, Mackey & Co.
Mason, C. E., & Co.
May & Baker, Lim.
National Chemical Co.
Ness & Co.
Read, Holiday & Co.
Sanitas Co., Lim.
Tuson's Disinfectants Co., Ltd.
Tyrer, T., & Co.

DOG MEDICINES

Lloyd, T. Howard
Spratt's Patent, Lim.

DRUGGISTS' SUN.

Ayrton & Saunders
Barclay & Sons, Lim.
Bleasdale & Co., Lim.
Dailley & Wilkinson
Cartwright, A. S.
Evans, Lescher & Webb
Evans, Sons & Co. (Savars)
Fordham, W. B., & Sons, Lim.
Hatrack & Co., Lim.
Hovenden & Sons
Kahler, G., & Co.
Kay Bros., Lim.
Maw, S., Son & Thompson
May, Roberts & Co.
Newbery, F., & Sons
Potter & Sacker
Quelch, H. C.
Sanger & Sons | Schutze & Co.
Southall Bros. & Barclay
Tidman & Son | Toogood, W.
Wood, Vincent

DRUGS

Allen, S., & Sons (Grinders)
Beynon & Co.
Bleasdale & Co., Lim.
Davies, Gibbins & Co.
Dietrich, Eugen
Kahler, G., & Co.
Meinertzhagen, E.
Oppenheimer, Son & Co.
Phillips & Co. (Grinders)
Stevenson, H. E., & Co.

DYES, &c.

Hatrack & Co., Ltd. ("Diamond")
EAU DE COLOGNE
Farina, J. M.
Farina, J. M. (Ursula Platz)
Muhlen, F.
Van Oppen & Co.

ECZEMA

Cullwick's Skin Ointment
Cullwick's Blood Tablets
EMBRICATIONS
Bow's Liniment
Celladema | Day & Sons
Elliham, Sons & Co.
Harvey & Co.
Tuson's Disinfectants Co., Ltd.
ENGRAVERS
Corsan, J. R.

ETHER

Duncan, Flockhart & Co.
Howards & Sons
Macfarlan, J. F., & Co.
May & Baker, Lim.
Robbins, J., & Co.
Tyrer, T., & Co.
White, A., & Sons
Woolley, Sons & Co.
Wright, Layman & Umney

ENEMAS

British-American Ball Nozzle
Evans, Sons & Co. (Co.)
Hatrack & Co., Lim. ("Rack")
Lynch & Co., Lim.
Sanger & Son | Wood, Vincent

ESSENCES

Boulton, J., & Co., Lim.
Bovril, Lim. (Beef)
Bratby & Hinchliffe, Lim.
Bueh, W. J., & Co.
Delbanco & Co.
Fletcher, Fletcher & Co.
Goodall, Backhouse & Co.
May & Baker, Lim.
Newball & Mason
Stevenson & Howell
Todd, A. M.
Tyrer, P. (Anchovies)
Woolley, Sons & Co.

ESSENTIAL OILS

Allen, S., & Sons
Blackwell, Hayes & Spilsbury
Boehm, Fredk.
Bush, W. J., & Co.
Delbanco & Co.
Evans, Sons & Co.
Feustell, Friedrich
Jackson, J., & Co.
Kahler, G., & Co.
Lewis, Mart, Lim.
May & Baker, Lim.
Poppelreuter, W.
Ransom, Wm., & Sons
Sanitas Co., Lim.
Stevenson, H. E., & Co.
Stevenson & Howell
Symes & Co. | Todd, A. M.
Warrick Bros.

EUCALYPTUS OIL

Sanitas Co., Lim.
Tasmanian Eucalyptus Oil Co.

EXTRACTS, FLUID

Allen & Hanbury
Allen, G., & Co.
Bleasdale & Co., Lim.
Burgoyne, Burbidges & Co.
Davies, Gibbins & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Co.
Hearon, Squire & Francis
Hooper, B., & Co.
Lloyd, T. Howard, & Co.
Moss & Co.
Parke, Davis & Co.
Potter & Clarke
Randall & Son
Ransom, W., & Son
Wright, Layman & Umney

EXTRACT MEAT

Armour & Co. | Brand & Co.
Liquor Carnis Co.

EXTRACTS, SOLID

Allen, G., & Co.
Randall & Son
Ransom, W., & Son

FEED BOTTLES

Burroughs, Wellcome & Co. (Thermo Safe)

FEED BOTTLES

Evans, Sons & Co.
Giberson, H., & Sons
Hearn, Wright & Co.
Hovenden & Sons
Kilner Bros.
Lynch & Co., Lim.
Parriott, E., & Co.
Maw, S., Son & Thompson
May, Roberts & Co.
Shirley Bros. | Youlden, E.

FILTERS

Berkfeld Filter Co.
Mawson Filter Co.

FLY PAPERS

Bleasdale, Lim.
Buchan, D. D.
Ford, Shapland & Co.
Maw, S., Son & Thompson
Strong, Christy
Tunbridge & Wright

FOOD (Infants' & Invalids')

Allen & Hanbury
Benger's Food
Bragg, J. L.
Christy, T., & Co.
Frame Food Co., Lim.
Goodall, Backhouse & Co.
Hawksley, T. (Steriliser)
Horlick & Co.
Kydde & Co.
Liquor Carnis Co.
Liebig Co. | Lorimer & Co.
Mellin's Food | Nestle, M.
Savory & Moore
Tyrer, P.
Vi-Cocoa (Dr. Tibbles)
Vimbas

FUNNELS

Von Poncet Glass Works

GELATINES

Boehm, F.

GINGER ALE

Bratby & Hinchliffe, Lim.
Chemists' Aerated & Mineral
Water Association, Lim.
Ellis & Son
Mills, R. M., & Co.

GLYCERINE

Blyton, Astley & Co. (Pastilles)
Boehm, F. | Fink & Co.
Price's Candie Co., Lim.

GRANULAR PREP.

Bishop, A., & Sons
Blyton, Astley & Co.
Boulton, J., & Co.
Davies, Gibbins & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard & Co.
Tyrer, T., & Co.
Wright, Layman & Umney

GUM

Fink & Co. (Arabic, &c.)
Graf, F.

HAIR PREP.

Alexandre's Shadeine
Brooks, Tom
Chesbrough Co.
Depilene Co.
Edwards & Co.
Thiellay, E. H.
Truett, H. P., Lim.

HERB BEER EXTS.

Adams, B.
Newball & Mason
Potter & Clarke

HOMOEOPATHIC

Keene & Ashwell
Lenth & Hoss
Watson & Wates

HONEY

White, G., & Sons

HYPOPHOSPHES

Duncan, Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Symes & Co.
Tyrer, T., & Co.

INHALERS

Arema Manufacturing Co.
Booth's Hyemol
Burroughs, Wellcome & Co.
Lynch & Co., Lim.
Martindale, W.
Sanitas Co., Lim.

INSECTICIDES

Barclay & Sons, Lim.
Bleasdale, Lim.
Jackson, T.
Sanitas Co., Lim.
Tunbridge & Wright

JELLOIDS

Warrick Bros.

KETCHUP

Tyrer, P.

LARD

Even, J., & Sons

LAVERD WATR

Jackson, J., & Co.

LEECHES

Fitch & Nottingham

LINT

Burgoyne, Burbidges & Co.
Christy, T., & Co.
Liverpool Lint Co.
Maw, S., Son & Thompson
Newsome, C.
Robinson & Sons

LIQUORS

Blackwell, Hayes & Spilsbury
Davies, Gibbins & Co.
Fletcher, Fletcher & Co.
Lloyd, T. Howard, & Co.
Moss, John, & Co.
Oppenheimer, Son & Co., Lim.
Sinclair, Phillips & Co.
Stevenson, H. E., & Co.

LIQUORICE

Evans, Sons & Co. (Savarini)
Hillaby, J.
Lorimer & Co.
"Solazzi"

LOZENGES

Allen & Hanbury
Davies, Gibbins & Co.
"Frog in your Throat"
Gibson, R., & Sons (Manfrs.)
Guest, T., & Co., Lim.
Hill & Son | Lorimer & Co.
Raines & Co. Randall & Son
"Solazzi" | Warrick Bros.

LUNG PRESERVRS

Zimmer, G.

MACHINERY

Bennett, Sons & Shears, Lim.
Gardner, W.
Melin, C. | Pindar, J. W.
Volcanic Aeration Co.
Werner, Pfeiderer & Perkins, Lim.

MALT EXTRACT, &c

Allen & Hanbury
Anderson & Co.
Blackwell, Hayes & Spilsbury
Burroughs, Wellcome & Co. (Kepler's)
Davies, Gibbins & Co.
English Diastase Malt Extract Co., Lim.
Hearon, Squire & Francis
Lorimer & Co. | Moss, J., & Co.
Oppenheimer, Son & Co., Lim.
Parke, Davis & Co.
Raines, Clark & Co.
Robinson & Co.
Standard Malt Ext. Co., Lim.

MAGNESIA

Bleasdale, W., & Co.
Davies, Gibbins & Co.
Evans, Gadd & Co.
Evans, Sons & Co.
Henry, T., & Son (Calcedine)
Hill, A. S., & Son
Lloyd, T. Howard, & Co.
Washington Chemical Co.

MANICURE

Hovenden & Sons

MARKING INKS

Bond (Daughter of the late John) (Ink and Pencils)

MATERIA MEDICA COLLECTIONS

Southall Bros. & Barclay

MEDICINE CHSTS

Burroughs, Wellcome & Co.
D., Son & Hewitt (Veterinary)
Day & Sons (Veterinary)

MENTHOL

Ayrton & Saunders
Christy, T., & Co.
Evans, Lescher & Webb
Maw, S., Son & Thompson
Shirley Bros. | Tyrer, P.
Vint, D.

MERCURIALS

Howards & Sons
May & Baker, Lim.
Tyrer, T., & Co.

METH. SPIRITS, &c.

Boord & Son | Burrough, J.
Jones & Co. | Phillips, G., & Co.
Smith, S., & Co.
Warren, A., & Co.

METHYLENE

Robbins, J., & Co.

MICROSCOPES

Darton, F., & Co.
Hicks, J. J.

MILK

Hawkesley, T. (Sterilizer)
Horlick & Co.
Nestle, H. (Condensed)

MORPHIA

Macfarlan, J. F., & Co.
Smith, Bertie, & Co.
Smith, T. & H., & Co.

OILS, &c.

Calvert Bros. & Co.
Hooper, B., & Co. (Santal Wood)

OINTMENT BASES, &c.

Burroughs, Wellcome & Co. (Lanoline)
Celladema
Chesbrough Co. (Vaseline)
Davies, Gibbins & Co.
Lloyd, T. Howard, & Co.
Stevenson, H. E., & Co.

OPTICIANS

Botwright & Grey
Darton, F., & Co.
Raphael, J., & Co.

OTTO OF ROSE

Warrick Bros.

OXIDE OF ZINC

Hubbuck, T., & Son, Lim.
Stevenson, H. E., & Co.

PALATINOVDS

Oppenheimer, Son & Co., Lim.

PASTILLES

Jackson, T.

PAT. MEDCNS, &c.

Celladema
Antikamnia Chemical Co.
Atkins' Lung Healer
Atkinson & Barker (Infant Preserv.)

Barclay & Sons, Lim.
Beecham, T. (Pills)
Bow's, Dr., Liniment
Brooks, Tom
Clarke's Blood Mixture
Cullwick's Skin Ointment
Cullwick's Blood Tablets
"Daisy" Headache Powders
Edwards & Son
Evans, Lescher & Webb
Evans, Sons & Co.
Fassett & Johnson
Fenning (Powders)
Goodall, Backhouse & Co.
Guy's Tonic
Holloway (Pills and Oint.)
Hovenden & Sons
Lalor (Phosphodyne, &c.)
May, Roberts & Co.
Newbery, F., & Sons
Richards, M.
Roberts & Co.
Rooke, Dr.
Warner's Safe Cure
Wilson, A. (Bunter's Nerveine)

PENS.

Jewell Lin Co.

PEPSIN &c.

Armour & Co.
Burroughs, Wellcome & Co.
Kühn, B. (Papain Finkler)
Newbery, F., & Sons (Ingulvin)
Oppenheimer, Son & Co.
Parke, Davis & Co.
Stevenson, H. E., & Co.

PERFUMERY

Barclay & Sons, Lim.
Bleasdale & Co.
Blondel & Co. | Boehm, F.
Blyton, Astley & Co.
Burgoyne, Burbidges & Co.
Burroughs, Wellcome & Co.
Bush, W., & J., & Co.
Chesbrough, C.
Cook, E., & Co.
Corby, Stacey & Co.
Crown Perfumery Co.
Evans, Gadd & Co.
Evans, Sons & Co.
Ewen, J., & Sons | Farina, J. M.
Guy's Tonic
Hovenden & Sons
Lanoline | Muhlen, F.
Ludovic, A. (Pine Tar Soap)
Lynch & Co., Lim.
Mason, C. E.
Newbery, F., & Sons (Berdoes)
Pears, A., & F., Lim.
Price's Patent Candle Co.
Sanitas Co., Lim.
Schutze, F., & Co.
Sharp Bros. Soap & Perfumery Co., Lim.

POLISHING

Bradley & Bourdas (Albatum)
Diamond Emery Co.
Fordham, W. B., & Sons, Lim.

PORCELAIN GDS

Toogood (Ecc. Pots, regist.)

POULTRY FOOD

Spratt's Patent, Lim.

PRINTING

Bowers Bros.
Corsan, J. R. (Glas)
Ford, Shapland & Co.
Harrison & Waide
Silverlock, H.
Townsend, J.

QUININE SALTS

Boehringer, C. F., & Sohne
Howards & Sons
Imperial Quinine Co.
Smith, S., & Co. (Wine)
Zimmermann, A. & M.

PEPPERMINT OIL

Bush, W. J., & Co.
Jackson, J., & Co.
Ransom, W., & Son
Stevenson & Howell
Todd, A. M.

PEROX. OF HYDR.

May & Baker, Lim.
Robbins & Co. | Tyrer, T., & Co.
Sanitas Co., Lim.

PETROLEUM JELLY

Allen & Hanbury
Christy, T., & Co.
Dee Oil Co., Lim.
Hatrack & Co., Lim. ("Lucil-line")
Snowdon, Sons, & Co. (Jelly)

PHARM. PREPS.

Allen & Hanbury
Armour & Co. | Baiss Bros.
Barron, Harveys & Co.
Boehm, Fredk.
Boehringer, C. F., & Sohne
Boulton, J., & Co., Lim.
Burgoyne, Wellcome & Co.
Burroughs, Wellcome & Co.
Davies, Gibbins & Co.
Dietrich, Eugen
Duncan, Flockhart & Co.
Evans, Lescher & Webb
Evans, Sons & Co.
Ferris & Co.
Fletcher, Fletcher & Co.
Hearon, Squire & Francis
Hewlett & Son
Hill, A. S., & Sons
Howards & Sons
Kühn, B.
Macfarlan, J. F., & Co.
Mackey, Mackey & Co.
Martindale, W.
May & Baker, Lim.
Moss, J., & Co.
Oppenheimer, Son & Co., Lim.
Parke, Davis & Co.
Potter & Clarke
Richards, J. M.
Roberts & Co.
Smith, T. & H., & Co.
Smith, W. F.
Squire & Sons
Stevenson, H. E., & Co.
Symes & Co.
Tyrer, T., & Co.
White, Alfred, & Sons
Willows, Francis & Butler
Woolley, Sons & Co.
Wyles, Lim.
Zimmermann, A. & M.

PHOTOGRAPHIC

Barclay & Sons, Lim.
Boehm, Fredk.
Botwright & Grey
Burroughs, Wellcome & Co.
Cadett & Neall
Darton, F., & Co.
Evans, Sons & Co.
Howards & Sons (Chemicals)
Lockyer, J. G.
Raphael, J., & Co.
Reynolds & Branson
Thornton-Pickard Co.
Tyrer, T., & Co.
White, Alfred, & Sons
Woolley, J., Sons & Co.
Zimmermann, A. & M.

PIG POWDERS

RENNET

Duncan, Flockhart & Co.
Evans, Gadd & Co.
Lorimer & Co.
Müller & Co.
Tomlinson & Hayward

RUBBER GOODS

Powell & Barstow

SALICIN

Macfarlan & Co.
Smith, T. & H., & Co.

SALICYLIC ACID

Burgoyne, Burdidge & Co.
Kühn, B.
Zimmermann, A. & M.

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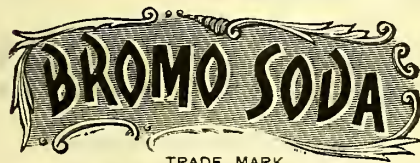
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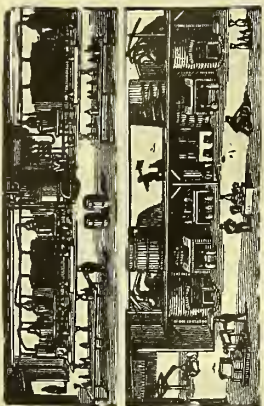
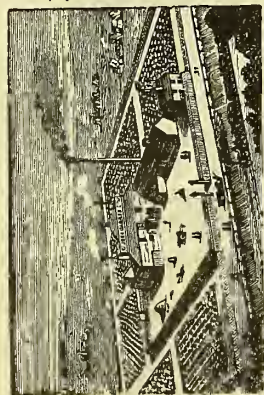
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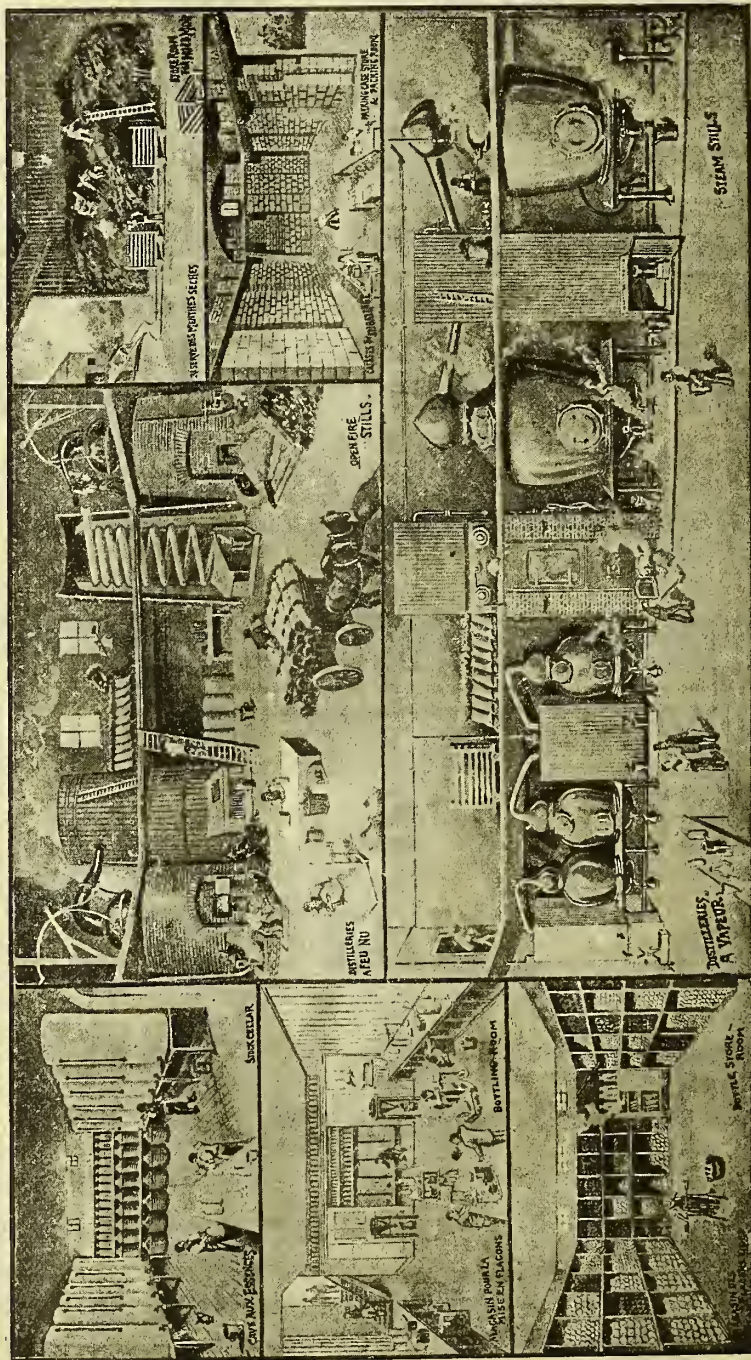
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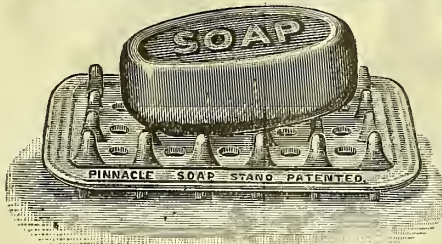
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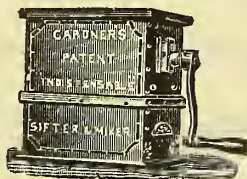
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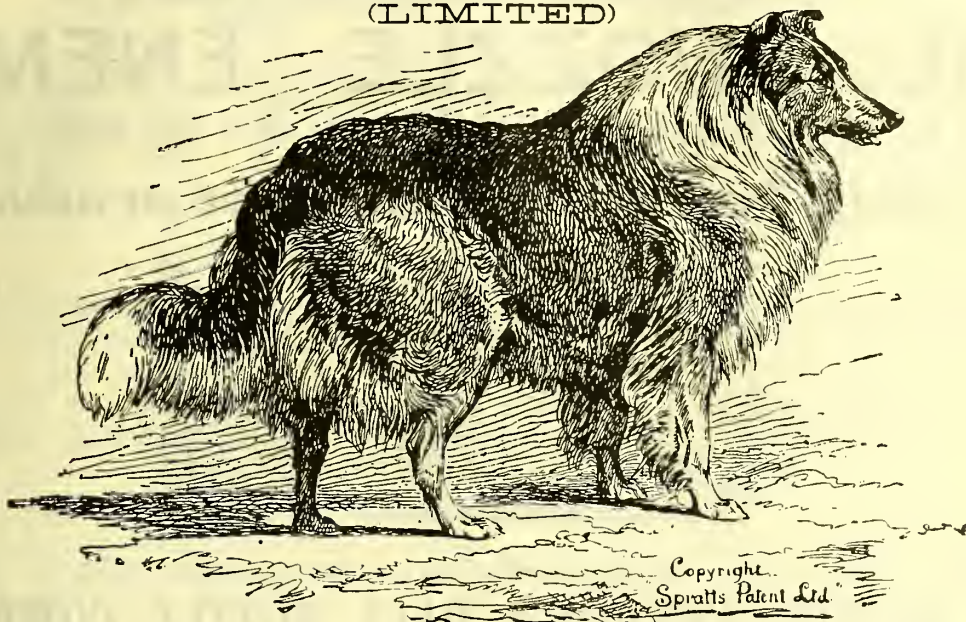
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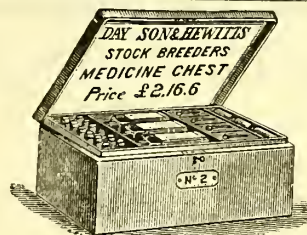
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A sure remedy for the Fret, Colic or Gripes, Influenza, Loss of Appetite in Horses. For Debility, Scour, or Diarrhoea in Horses, Cattle, and Sheep. Hoven or Blown Cattle and Sheep instantaneously relieved.

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For all Feverish Disorders among Cattle, Sheep, and Pigs, and for Colds, Indigestion, Costiveness, Yellow, Surfeits, Loss of Cud, Hide-bound, Red Water, &c. Admirably adapted for Cleansing and checking Feverish symptoms in Cows and Ewes after Parturition, rendering the milk copious, pure, and wholesome. It acts as a safe preventive of milk Fever.

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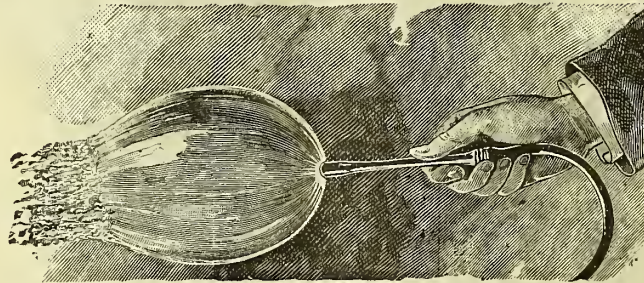
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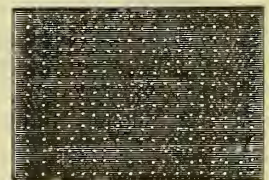
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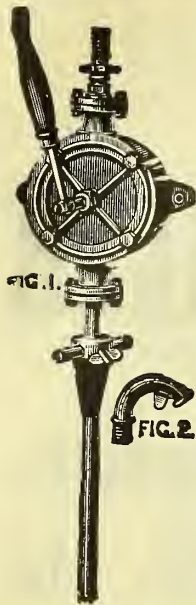
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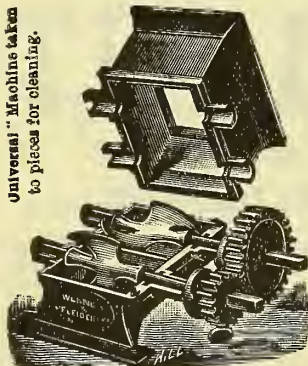


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POWDER-SIFTERS**

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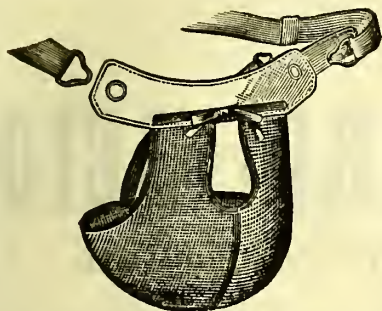
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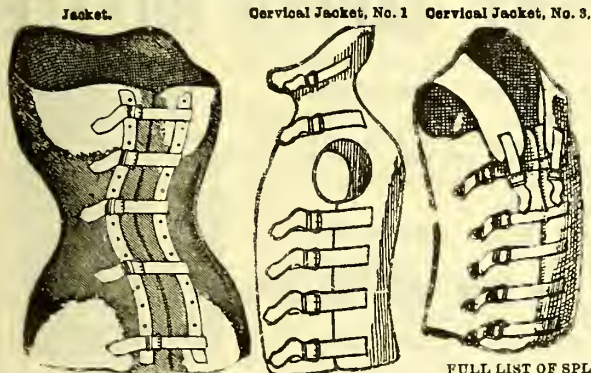
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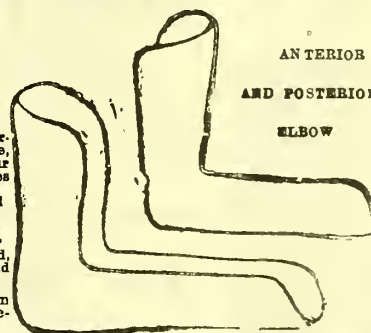
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Sole Manufacturr. J. T. COCKING, PLYMOUTH.**JACKET**
In cases of slight deformity.**INSTRUCTIONS
FOR MEASUREMENT.**Circumference at axilla.
" waist.
" hips.
Length from axilla to great trochanter.

In severe angular cases, circumference over apex of curve, position of ditto, and contour should be given; in lateral cases a description of the case. In all cases it must be stated if for male or female.

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Same measurements required, and circumference at neck, and length from neck to axilla.

Any part of the Jacket can in the process of manufacture be left soft.



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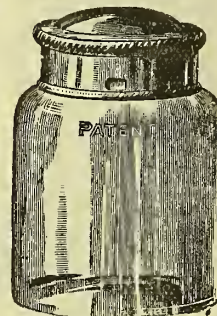
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6, 8, .. 8/6 ..	16 .. 16/- ..

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Six gross and upwards, assorted or otherwise, are carriage paid to any address in England; smaller quantities not carriage paid.

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Bankers—London and Westminster Bank.

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GUARANTEED PURE, YELLOW AND WHITE.



In Blocks, Cakes, Tablets, or any other form at lowest possible prices.

FREE TO ANY PLACE OF THE UNITED KINGDOM.
AND BEST PURE BLEACHED CARNAUBA WAX.

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TRADE  MARK.


Tea 'Tabloids'

**BURROUGHS,
WELLCOME
& Co.,**

Snow Hill Buildings,
LONDON, E.C.







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"BURCOME, LONDON."






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Do. 6 dozen lots4/6	
Do. 1 gross lots and upwards4/3	
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Do. 6 dozen lots9/0	
Do. 1 gross lots and upwards8/6	

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CHESEBROUGH MANUFACTURING CO., 42 HOLBORN VIADUCT, **LONDON, E.C.**

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SEND FOR REDUCED PRICE LIST OF THE "VASELINE" PREPARATIONS.



Directions for use in English, French, or Spanish, as required.

SOLD IN TINS BY CHEMISTS EVERYWHERE.

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AND ALL WHOLESALE HOUSES AND SHIPPERS.

The Times:—"These are fine Wines to keep, as English buyers are beginning to discover."

Burgoyne's Australian Wines

All Chemists holding a Wine Licence are invited to communicate with us for prices, particulars, &c.

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whole of the Members of TEN PHARMACEUTICAL
SOCIETIES in the British Empire.

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THERE are still a day or two to send in fresh ideas on money-making and money-saving in the drug-trade. Put down any notion you have on a postcard, and send to us not later than Saturday of this week. We shall give a prize of a guinea to the best.

OUR WINTER NUMBER.

ALL advertisers who desire to have an announcement in our next issue, which will be The Winter Number, are requested to note that we shall begin to go to press with the advertisement sheets on Monday, and no advertisement for insertion in the issue can be accepted after Tuesday, January 25.

We strongly advise enterprising houses not to miss this opportunity of bringing their business announcements under the notice of the best buying clientèle in the world.

Small advertisements in respect to businesses for disposal or wanted, situations, exchange column, &c., will be accepted for insertion in the coloured supplement up to Thursday, January 23, at 5 P.M., but the earlier they are sent in the better for us, as we wish to deliver the number as promptly as possible.

The literary pages will close for press on Wednesday. Will our correspondents please note this?

Summary.

THE Japanese Customs Tariff is to be revised (p. 114).

THIS week's bankruptcy proceedings are interesting (p. 120).

SOME points about bacteria, gathered from lectures by Dr. Symes Thompson, are printed on p. 129.

TWO Dumfries chemists correct the statement that cutting does not exist in that "Queen of the South" (p. 135).

THE fees that medical men may get in the Transvaal under certain circumstances are somewhat high. See the note on p. 115.

THE deaths of Mr. Thomas Blanshard, of Edinburgh, and Dr. F. Mouat, a retired Indian pharmacologist, are noted on p. 121.

AMONGST the items of news from Australia is one regarding the distribution of pharmacists in the colonies there (p. 115).

WE refer to the incidents and measures of interest to the trade which have revealed themselves to Parliament this week (p. 122).

SOME interesting commercial items, including the detection of musk-adulterations by radiography, are the "Produce Notes" on p. 129.

A SMALLER number of students than usual have reported on the last analytical competition. The mixture contained three nitrates (p. 110).

DR. THUDICHUM, in lecturing upon wine on Monday, gave colonial viticulturists some good advice regarding the selection of vines to grow (p. 111).

A SEMI-OFFICIAL on Technical Education in Germany has been published, in which the methods of German chemical factories bulk largely (p. 123).

A CONSIDERABLE number of persons and firms connected with the drug-trade have contributed to the Indian Famine-fund. Their names are on p. 112.

SUGAR containing 25 per cent. of chalk in a crystalline state is to be found in the market. Lipton has been fined 5l. for selling such sugar (p. 126).

THE agents for Vin Mariani and Santal-Midy have placed these articles on the P.A.T.A. list (p. 118), and Mr. J. John Snook, who manages that business, gives his reasons for so doing on p. 135.

A CHEMIST AND DENTIST at Ipswich has had to defend an action brought by a client, who claimed damages for injury to his tongue during the extraction of a tooth. The jury found for the chemist (p. 127).

A SUCCESSFUL meeting in support of the P.A.T.A. has been held in Newcastle, and the chemists of that neighbourhood now think of forming a local association. Several P.A.T.A. items are appended to the report on p. 118.

MR OTTO HEHNER advises the Isle of Wight authorities regarding the presence of copper in peas, using a clever argument (p. 111); he also figured prominently at a meeting in Burlington House on Monday in a dispute with Dr. Lewkowitsch (p. 116).

THE Richmond Magistrates, having heard the expert evidence that "arsenical soap" did not contain a detectable amount of arsenic, decided that the soap is not a drug and that the case should have been brought under the Merchandise Marks Act. (p. 125).

MR. DIBDIN communicated an interesting paper regarding the quality of London Water to the Society of Chemical Industry on Monday. He advocates greater attention to the suspended matter in water, and that the London County Council should have the same control of the water as they have of the gas supply (p. 116).

AT an Assistants' meeting in Edinburgh, Mr. Boa showed that aq. chloroformi B.P. keeps better than a water containing spirit: Mr. Macpherson proved that Armenian bole is sometimes used for colouring pimento, and Mr. Rutherford Hill made an astonishing revelation regarding the quality of belladonna-plasters sold by retail (p. 117).



CONDUCTED BY RICHARD J. MOSS, F.C.S., F.I.C.

ANALYTICAL TOURNAMENT.

In addition to the monthly prizes given in this section, we shall give a special prize to the competitor who in the next six analyses (beginning with the one now announced) scores the highest number of marks. The prize will consist of ten volumes of the "Century Science Series," edited by Sir H. E. Roscoe, and published by Messrs. Cassell & Co., together with a handsome certificate. A book and a certificate will also be presented to the competitor whose aggregate comes out second best in the tournament, and another book and certificate to the student who takes the third place.

QUALITATIVE ANALYSIS.

THE subject of the next exercise in qualitative analysis will be a mixture of not more than three salts. The mixture is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a *stamped and addressed envelope*, not a stamp merely) will be received up to Wednesday, January 27, and the samples will be forwarded immediately.

Students' reports will be received up to Saturday, February 6. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

REPORTS.

The subject of the last exercise in qualitative analysis was a mixture consisting of 5 parts silver nitrate, 45 parts lead nitrate, and 50 parts barium nitrate.

The calculated composition of the powder was—

Ag	..	..	..	..	..	318
Pb	..	..	..	..	..	2814
Ba	..	..	..	..	..	2625
NO ₃	..	..	..	..	..	4243
						<hr/> 100.00 <hr/>

There was a trace of chlorine present.

Portions of the mixture were sent to 54 applicants, and only 17 reports of analyses were received in reply.

All the constituents of the mixture were detected by each of our correspondents, with the exception of silver, which 9 students failed to detect.

Though the powder contained little more than 3 per cent. of silver, the detection of the metal presented no serious difficulty. When hydrochloric acid was added cautiously to the solution of the powder in hot water, the precipitate at first formed consisted of silver chloride only. Its peculiar card-like appearance distinguishes it at once from lead chloride. With a little care one could observe when the addition of hydrochloric acid ceased to precipitate silver chloride; with a sufficiently dilute hot solution no lead was precipitated along with the silver. If such a solution be filtered hot all the silver is obtained in the filter, and the lead in the filtrate, from which it will crystallise out on

cooling. If sufficient hydrochloric acid is used the greater part of the lead will be obtained as chloride when the filtrate cools, but it never completely separates in this form. When the lead and silver are precipitated together from a cold solution, and the mixed chlorides collected in a filter, it is not easy to observe the effect of hot water upon them, unless the precaution is taken of washing the precipitate into a test-tube or beaker and warming it with water. In this way it is very easy to see whether complete solution ensues. If some of the precipitate remains undissolved even in boiling water, it is certainly not lead chloride, unless the solution is concentrated, and thus incapable of dissolving all the lead chloride. This point may be cleared up by filtering the hot solution and again washing off the insoluble part and warming it with water.

In practice there is seldom any difficulty in obtaining a sharp separation of silver from lead by this method. The results obtained by some of our correspondents show that sufficient care was not taken in observing the behaviour of the chloride with hot water, though the experiment seems to be one of extreme simplicity.

PRIZES.

The First Prize for the best analysis has been awarded to B. M. PRESTON, c/o Mr. G. Coverdale, Park Street, York

The Second Prize has been awarded to

HAROLD W. HARRIE, c/o Messrs. C. R. Harker, Stagg & Morgan, 15 Laurence Pountney Lane, E.C.

MARKS AWARDED FOR ANALYSES.

B. M. Preston (1st prize)	..	97	A. E. King	..	..	82
H. W. Harrie (2nd prize)	..	95	A. E. Beeston	..	..	80
Acetylene	..	..	W. J. Lacey	..	..	80
Petal	..	..	Dove	..	..	78
Vix	..	..	Doubtful	..	..	75
A. Fraser	..	..	C. T. J.	..	..	73
Scipio	..	..	W. M. Mason	..	..	72
C. J. Packham	..	..	E. W. Ford	..	..	70
Lime Blue	..	..		
		85				

TO CORRESPONDENTS.

Prizes.—The students to whom prizes are awarded are requested to write at once to the Publisher, naming the book they select, and stating how they wish it forwarded.

Any scientific book that is published at a price not greatly exceeding half a guinea may be taken as a first prize.

Any scientific book which is sold for about five shillings may be taken as second prize.

Note.—All communications should include the names and addresses of the writers.

ACETYLENE.—A great deal of your work for the detection of acids was unnecessary, having regard to the fact that the powder was almost completely soluble in water, and contained silver lead and barium.

PETAL.—See remarks to Acetylene.

VIX.—To ascertain what the turbidity of the aqueous solution was due to, the solution was filtered, passing the liquid through several times until the filtrate was perfectly clear. After thorough washing, the filter was treated with a few drops of dilute ammonia. On adding a slight excess of dilute nitric acid to the ammoniacal washings a curly white precipitate separated. This left little doubt of the presence of silver chloride. To ascertain whether barium sulphate remained on the filter, it was dried and ignited. The ash did not evolve sulphuretted hydrogen when treated with an acid, nor did it colour the flame green. The former effort showed that no sulphide, such as would result from the reduction of a sulphate, was present; the latter that barium was absent.

A. FRASER.—A blank experiment with the sodium carbonate you used will probably show that it is not quite pure. Considering the mere turbidity of the aqueous solution, there could not have been much chlorine present.

SCIPIO.—To complete your proof of the presence of a chloride, you should have shown that the substance you fused contained no chloride before fusion. The fusion may be avoided by taking advantage of the deoxidizing action of nitrous acid or a nitrite.

C. J. PACKHAM.—The white precipitate which you mistook for aluminium hydrate was due to lead.

DOVE.—A small quantity of a white precipitate distributed on filter-paper may easily be overlooked; such a precipitate may easily be washed off the filter for the purpose of testing its solubility.

A. E. KING, A. E. BEESTON, W. J. LACEY.—Your reports all come from

the same town, and all contain the same errors. More careful observation would have shown that the precipitated chlorides were not completely soluble in hot water—indeed, the residue that remained undissolved was quite considerable. If you repeat your experiments for the detection of acetic acid, using any nitrate, you will get the same results; but try the same experiments with an acetate, and note the difference.

DOVER.—If a bismuth-salt had been present the powder would have behaved in a very different way with water.

DOUBTFUL.—It is impossible to precipitate lead completely in the form of chloride from an aqueous solution; a notable quantity of lead chloride remains in solution however cold the liquid may be. This portion of the lead should always be removed by the next group-reagent—sulphuretted hydrogen. If the latter reagent does not produce a precipitate under the circumstances, you may be certain that there is too much free acid present, and evaporation or dilution must be resorted to. The white precipitate you obtained with ammonia was a basic lead compound, not aluminium hydrate.

C. T. J.—You omitted to state your reasons for concluding that bismuth was present. See remarks to "Dover."

W. J. MASON.—Whenever lead is detected in the first group you may expect to find it in the second group. See remarks to "Doubtful."

F. W. FORD.—The bead you obtained by fusing some of the powder with sodium carbonate on charcoal was unalleable, and marked paper as lead does; a bismuth-bead is brittle and easily reduced to powder. An aqueous solution of ferric chloride darkens in colour when heated, owing to partial dissociation. It was this darkening that you observed, and not the red colour of ferric acetate.



Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Alleged Patent-medicine Fraud.

At Church Police Court, on January 17, Henry Wardle herbalist, of Waterfoot, was charged with obtaining money by false pretences. Police-sergeant Armstrong stated that on December 21 prisoner came to his house and said, "I am agent for Hood's sarsaparilla. I have a few sample bottles, and am taking them round to let people see what a good thing it is." He produced a bottle, saying it would be 2s. 6d., but, as it was Christmas-time, witness could have it for 1s. He purchased it for that sum, thinking it was Hood's sarsaparilla, and good for rheumatism. Mr. Gordon, managing director for C. I. Hood & Co. (Limited), said the contents of the bottle in question were not Hood's sarsaparilla. Prisoner denied using the name of Hood, and said he told the sergeant that it was a blood-purifier and a tonic. Prisoner's counsel (Mr. Withers) objected to the case being brought into a criminal court and the public funds being spent to gratify a private trading-firm. Prisoner was committed for trial.

Mr. Hehner and Coppered Peas.

Reporting to the Isle of Wight County Council, the Public Analyst, Mr. Otto Hehner, refers to eight samples of preserved peas which were submitted to him for analysis. Two contained such notable amounts of copper that he felt it his duty to give formal certificates of adulteration, especially as during the last few months many convictions of vendors of similar articles had taken place. The only argument which could be brought forward in favour of coppered peas was that the public liked the colour, and that they did not as a rule eat a sufficient quantity of the coppered article to feel the effects natural to compounds of copper. If the public taste has been vitiated, Mr. Hehner thinks the sooner people are taught that preserved vegetables are not grass-green the better; and the less reliance is placed on the quantity of poison which the average person is likely to take in the form of coppered vegetables the better for the public safety. Formerly pickles were almost universally coppered. Copper is no longer found in pickles. Why, then, should it be allowed in preserved peas and beans? The Magisterial Bench before

whom the cases were heard had thought fit to dismiss the summons; so that while it is unlawful to sell coppered peas in London or Bristol, the inhabitants of the Isle of Wight may lawfully be subjected to a copper treatment by their grocers.

Sunday Lectures.

Last Sunday afternoon Professor Norman Collie, F.R.S., opened the second series of lectures promoted by the Sunday Lecture Society, at St. George's Hall, Langham Place, W. The subject of Professor Collie's lecture was "The Mountains of Britain."

Carbolic Fatalities.

Alfred Moon (26), employed in the manure-works at Torpoint, Cornwall, arrived home on Sunday evening last the worse for liquor, and, after smashing his watch and sundry articles of furniture, finished up by drinking a quantity of carbolic acid, under the impression that it was beer. An inquest followed.

Arthur R. Richards, of Seacombe, foreman at the Birkenhead grain-warehouses, was found in Central Park, Liscard, on January 10, dead, with a bottle which had contained a quantity of carbolic acid.

The Chemist and his Crowbar.

Mr. Knight, of Windle & Co., chemists, Edgware Road, W., was championing the people's rights one day last week. The M. S. & L. Railway Company having stopped the free passage through Kelsale Place into Capland Street, Lisson Grove, Mr. Knight, to assert public rights, in the presence of an admiring assembly, removed the obstructions with a crowbar. The company are to apply to the Vestry for leave to close the place, and as Mr. Knight is a vestryman, the company will not get it all their own way.

Coroner and Chemist.

At an inquest held at Bülth on Saturday, by Mr. D. W. J. Thomas, on the body of Florence Jarvis, aged 2 years and 4 months, the Coroner said the inquest was held solely because a medical man had not attended the child. The mother stated that the child was taken ill with bronchitis on Christmas Day. She went to the chemist (whose name did not transpire), and he gave her something that did the child a deal of good. Subsequently the child grew worse, and died before medical aid could be obtained. In reply to the Coroner the witness said she did not know that chemists were not allowed to prescribe. The Coroner said it was very likely that what she got from the chemist was quite proper, as chemists knew a good deal as to what medicines were for. But chemists were not supposed to prescribe for people in sickness, but only to make up prescriptions written by qualified men. In some chemists' shops there were assistants without proper qualifications, and therefore people ought not to go to chemists' shops for medicines which had not been properly prescribed by a qualified man. A verdict of death from natural causes was returned.

Dr. Thudichum on Wine-culture.

Dr. Thudichum, L.R.C.P., lectured at the Imperial Institute on Monday, January 18, on "The Origin, Nature, and Manufacture of Wine." In introducing the lecturer, Dr. T. Lauder Brunton, F.R.S., who occupied the chair, remarked that the subject was one of the greatest possible interest to all civilised countries where painting, poetry, music, and art of all kinds flourished along with the consumption of wine. If the Imperial Dominions could supply themselves with wine, it would be a very great addition to their power; hence the necessity for giving the subject due attention. Dr. Thudichum traced the history of the vine as shown by fossil remains, and gave an account of its geographical distribution, its products, the diseases to which it is liable, and the effects produced. The conventional value of wine, he said, is determined less by its principal ingredients than by the prominence of the specific characters termed bouquet, and the absence of certain, mostly elementary, faults. Dietetically most wines are of equal value, provided they are the products of a favourable season, are pure, and free from the faults produced by parasitic fungi. By lack of knowledge as to the natural law that the selection of the proper vine for its suitable locality is the condi-

tion of success in viticulture, our colonists in Australia, New Zealand, the Cape of Good Hope, and Canada had experienced many reverses, and by continuing their indifference would multiply them. The small-berry vines will not succeed for wine-making in the southernmost climates, and inversely the large-berried and large-bunched grape will only succeed in the hottest and moistest climates of South Europe.

Festivities.

The ball given by the Sheriff of Hull, Mr. W. T. Owbridge, was by general consent admitted to be the most brilliant function of its kind ever known in Hull. The occasion was notable for the presence of Sir Albert K. Rollit, M.P. (a former Mayor of Hull), and his newly-acquired bride, the Dowager Duchess of Sutherland.

The Chemists' Assistants' Association commenced the second half of the present session at 103 Great Russell Street, W.C., on Thursday evening, January 14, when an excellent concert had been arranged by Mr. H. H. Robins. The attendance was rather small. Mr. Charles Morley (the President) was in the chair, and briefly referred to the work which is to be done during the remainder of the session.

The annual supper of the employés (numbering 63) of Messrs. W. Butcher & Sons, wholesale chemists and photographic-apparatus manufacturers, of Blackheath, took place at the Princess of Wales Hotel on January 14. A smoking concert followed the supper, and an excellent programme was carried through. During the evening the toast of prosperity to the firm was proposed and carried amidst much applause. Mr. Frank Butcher responded.

The annual staff dinner of the firm of Headlands & Co., chemists, Brighton, took place on January 15. The company numbered twenty-five. They were entertained by Mr. and Mrs. H. A. Costerton, at the firm's head establishment, 90 Western Road, and amongst those present were Messrs. C. S. Ashton, partner and manager of the North Street branch, H. C. Thorne, partner and manager of the Hove branch, H. Carr, manager of the head business, and H. P. Everett, manager of the London Road branch. A very pleasant evening was spent.

Chemists at Football.

On Saturday last the Barronetta F.C. (Barron, Harveys & Co.) played their return match with the Baths Club at Queen's Park; they won by 4 goals to nil. Goals were kicked by Bremner (2), Sheriffs (1), Poppett (1).

The Pharmaceutical F.C. played the Bryanston F.C. on Saturday last at Regent's Park. The result was a draw, 5-5.

A Chemist's Bank-shares.

At the Carnarvonshire Assizes, on January 18, before Mr. Justice Grantham and a jury, Henry Roberts, manager of the Bethesda branch of the Metropolitan Bank, sued Thomas J. Hughes, chemist, Bethesda, for 75% in respect of 30 shares in the National Bank of Wales. Mr. Hughes purchased the shares at 2s. 6d., and gave an undertaking that in the event of a call being made he would meet all responsibilities. There was no transfer of the shares, and the plaintiff had therefore to meet the call when one was made. His Lordship, in summing up the case, said that the defendant, as the manager of a loan office, must have been well aware that when he purchased the shares at such a low figure there was every likelihood of a call being made. The jury, without leaving the box, found for the plaintiff for the full sum claimed.

Fashionable Tastes.

Beatrice Bates, aged 9, and Jemima Bates, aged 11, were brought up at the Penkridge (Staffordshire) Police Court charged with stealing two bottles of lavender-water, value 1s., from the shop of Mr. Fowke, chemist, Penkridge. Charles E. Dallow, assistant to prosecutor, stated that he left the shop on December 14, and on his return missed the bottles. Police-constable Tittensor, on receiving information of the theft, went to the schools, and the defendants produced the bottles, and admitted having taken them. Defendants had no father, but their grandmother appeared

with them, and promised to look after them. Lord Hather-ton said the law was much more merciful now than formerly; and the girls would be dismissed with a caution.

Indian Famine Fund.

Among the subscribers to this fund (which is now in its second hundred thousand) are the following firms and persons, whose names are more or less familiar in the drug-trade:—

	£	s.	d.		£	s.	d.
Alex. Lawrie & Co. ..	177	10	0	Johnsen & Jørgensen ..	26	5	0
Johnson, Matthey & Co.	105	0	0	Burgoyne, Burdighes & Co. ..	25	0	0
T. Hubbuck & Son ..	105	0	0	S. Rucker & Bencraft ..	25	0	0
S. Maw, Son & Thompson	105	0	0	Wilson, Smithett & Co. ..	25	0	0
Morgan Crucible Com-pany (Limited) ..	105	0	0	C. M. C. Woodhouse ..	25	0	0
Price's Patent Candle Company (Limited) ..	105	0	0	Carey & Browne ..	25	0	0
J. & J. Colman ..	105	0	0	Dalton & Young ..	25	0	0
S. Berger & Co. ..	105	0	0	Sanderson & Co. ..	25	0	0
Apollinaris Company (Limited) ..	105	0	0	C. Southwell & Co. ..	25	0	0
C. M. Lampson & Co. ..	105	0	0	C. Southwell & Co. (staff)	2	8	6
R. Quincey & Son ..	105	0	0	Evans, Lescher & Webb ..	25	0	0
C. Tennant, Sons & Co. ..	105	0	0	Barron, Harveys & Co. ..	21	0	0
W. J. Bush & Co. ..	105	0	0	Grimwade, Ridley & Co.	21	0	0
Whitbread & Co. (Limited)	105	0	0	Herrings & Co. ..	21	0	0
Doulton & Co. ..	100	0	0	G. B. Kent & Sons ..	21	0	0
Duncan, Flockhart & Co.	100	0	0	Major Clifford Probyn ..	10	10	0
Alderman Vaughan Morgan ..	52	10	0	Claudius Ash & Sons (Limited) ..	10	10	0
Septimus Vaughan Morgan, Esq. ..	52	10	0	Professor and Mrs. Dewar	10	10	0
Widermann, Broicher & Co.	52	10	0	J. & A. Churchill ..	10	10	0
Howards & Sons ..	52	10	0	G. T. Cox & Sons ..	5	5	0
T. Whiffen, Esq. ..	50	0	0	Giles Yarde, Esq. ..	5	0	0
D. & W. Gibbs (Limited)	50	0	0	Armbricht, Nelson & Co.	2	2	0
				Mrs. Armbricht and children ..	2	2	0
				Berkefeld Filter Company	2	2	0

Ball.

The chemists' thirty-first annual ball took place at the Portman Rooms on Wednesday evening. In spite of the blast from the North-east, a goodly number of the iik, with their spouses and lady relatives, put in an appearance on dancing and supper intent. Though not quite up to last year's mark, the number of tickets sold for this fête, some 230, was distinctly above the average, and it was generally agreed that great credit was due to Mr. J. C. Umney for having organised what proved to be, as it has usually been, an unqualified success. Among the notabilities present, on toe and on foot, we noticed Mr. Walter Hills, President of the Pharmaceutical Society, Mr. M. Carteighe, Mr. Martindale, Mr. T. Tyrer, Mr. Richard Brembridge, Mr. T. H. W. Idris, L.C.C., &c. After the supper, which went off with the customary enthusiasm and elatter, the speech-making was, as usual, limited to the double-barrelled toast—"The Chemists' Ball" and "The Ladies." This important function was discharged by Mr. Walter Hills, who modestly apologised for occupying the chair for so many years worthily filled by the amiable Mr. Carteighe. He alluded to the charitable aspect of the festivity, and directed attention to the beneficent purposes of the Pharmaceutical Benevolent Fund, for which he solicited frequent and abundant donations. Then, in a few appropriate words, he proposed the time-honoured and ever-popular toast of "The Ladies." Immediately thereupon the light-fantastic toe resumed its pre-eminence, and the Terpsichorean goddess ruled the roost until, or almost until, daylight did appear. The programme was a very artistic production, exhibiting Mephistopheles in a new and highly-coloured rôle.

THE SACRED PHARMACIST.—The *Monde Illustré* attributes the following experience to Dr. Axenfeld. It was in his early days, when a ring came at his night-bell, accompanied by a desperate appeal to "save the life" of a suffering lady. Prompt to the call of duty, the doctor turned out into the snow and biting wind, prescribed and returned half dead with cold. Next morning, he found his unexecuted prescription lying at the patient's bed-head. "We did not dare wake up the pharmacist," explained the "dying" lady's husband



Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Pharmaceutical Examinations.

Registered Druggist Examination.—Mr. R. N. Allen has passed. Three candidates were rejected.

Pharmaceutical License Examination.—Messrs. W. Yeats, J. F. O'Neill, G. A. Deans, W. H. Hopkins, J. W. Carr, and J. M. Whelan have passed. Nine candidates were rejected.

Specimens Wanted.

The Keeper of the Herbarium and Economic Collections of the Science and Art Museum, Kildare Street, Dublin (Professor Johnson, D.Sc.) is at present engaged in bringing together a typical collection of economic (botanical) objects for the public galleries of the Economic Collections here. He proposes to imitate on a small scale the well-known Economic Museums at Kew, and is inviting from wholesale druggists, &c., free specimens of any economic (drugs, &c.) which may be at their disposal. The name and address of the donor will be attached to the specimens, which will be suitably placed on exhibition in the specimen-cases. The Economic Collection at the Museum is the only one of its kind in Ireland, and is at all times available to the public without charge. Carriage will be paid by the Department, and goods should be addressed to "Dr. T. Johnson, Keeper of the Herbarium, Science and Art Museum, Dublin."

Railway Charges.

A largely-attended public meeting of merchants and traders was held last week in Dublin to consider the question of how best to reduce the present high railway rates and charges in Ireland. It was resolved that the matter be brought specially under the notice of the Chief Secretary, with the view of having a Royal Commission appointed to inquire into the advisability of the purchase by the Government of the Irish railways.

Alleged Dispensing by Paupers.

Last week, at a meeting of the Cork Guardians, Sir John Scott referred to a statement that, in the absence of the apothecary, prescriptions were compounded by the ward-master and a pauper. He thought that, in the interests of the poor, the apothecary should be called on to attend punctually. Dr. Allsom, L.P.S.I., said he was always in attendance in the house before 12 noon daily. He had been asked by Dr. Cummins to allow the ward-master in to enable him to get a slight knowledge of the work. He was also asked to allow other persons in. Dr. Cummins denied this statement. Dr. Allsom asked for a sworn inquiry, that it might be known who was telling the truth. Dr. Guisani said he had seen paupers making up prescriptions when Dr. Allsom was not in the house. Mr. Hall (a Guardian) hoped that paupers would not in future be allowed to dispense medicines in the house. The matter was allowed to stand over for the report of a committee appointed to inquire into the matter.

An Old Man's Darling.

A case of suspected poisoning is reported from Kilbaha, co. Clare. A wealthy old man of 70 recently married a young girl of 16 years old, and it is alleged that the latter, assisted by two young men, administered to him small doses of hemlock. The wife and her accomplices have been arrested and await trial. The aged husband lies in a precarious condition.

The Chemist's Runaway Horse.

Mr. Henry Bell, pharmaceutical chemist, Waterford, was last week sued by a woman named Ellen McLaren, to recover 80l., damages for injuries sustained by being knocked

down by a runaway horse belonging to the defendant. A decree for 10l. was given.

An Old "Cure."

On January 13, in the Recorder's Court, Belfast, an extraordinary case of "charming" was investigated by the local coroner. It appeared that a year-old child had been suffering from whooping-cough, and its mother brought it for treatment to a labouring man named McIlhatten, who had the reputation of being able to cure diseases by "charms." McIlhatten passed the child thrice under the belly of a donkey, and each time he caused the animal to eat some out-cake out of the child's pinafore. The coroner deplored the ignorance which led the mother to rely on "charms" rather than on proper medical advice, which would probably have saved the child's life. McIlhatten was discharged.

Is this Protection?

The Port and Docks Board, Dublin, propose to levy a tonnage-rate of 2s. 6d. on imports and exports of drugs and chemicals. Hitherto the Port of Dublin has been free to all comers.

At the Potato Tercentenary,

held a few days ago in Dublin, the following were amongst the exhibitors:—The Cork Chemical and Drug Company, who made an interesting show with Harrington's potato-blight preventives and crop-increasers; Messrs. Boileau & Boyd (Limited), with chemicals and preparations used in the prevention of potato-disease; the United Alkali Company, Liverpool, who exhibited alkali and other chemicals.



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The Litigation between Edinburgh Chemists.

Messrs. James Anderson & Co., manufacturing chemists, Leith, have given notice of a motion for a new trial in the action against them by Messrs. Gibson & Co., chemists.

Herb-beer.

Several small shop-keepers at Dundee were prosecuted by the Inland Revenue authorities last week for selling herb-beers which contained more than 3 per cent. of proof-spirit. The evidence proved that in some cases the beer was as strong as Scotch ale, commonly called "tupenny" in the neighbourhood. Fines were in all cases imposed.

Acetic Smoke.

James Bell Dow, 107 Buchanan Street, representing the Glasgow Acetic Acid Company (Limited), North Spiers Wharf, Port Dundas, was convicted at the Central Police Court, Glasgow, on January 13, of having caused a smoke nuisance at their works there on December 19. This was the fifth conviction of the company within a year, and Bailie Carswell imposed a fine of 2l., with the option of fourteen days' imprisonment.

Business Changes.

Mr. A. W. Henderson, chemist, Manager of Gordon's Drug Stores, Skene Street, Aberdeen, has purchased the business carried on by Mr. James Whyte, chemist, 33 Rosemount Viaduct, Aberdeen.

It is officially announced that the firm of J. N. Davidson & Gray, chemists, Dundee, of which the late James Noble Davidson and John Gray were the sole partners, has been dissolved by the death of Mr. Davidson. Mr. Gray will now carry on the business on his own account, under the former style of Davidson & Gray, and will collect the assets and discharge the liabilities.

French News.

(From our Paris Correspondent.)

THE PLAGUE IN INDIA.—The Minister of Foreign Affairs has transmitted to the Academy of Medicine a letter from the Consul of France at Calcutta, M. Klobuski, concerning anti-choleraic vaccination in Assam. Dr. Haffkin's method, it was stated, had reduced the percentage of deaths from cholera from 19 per cent. to $2\frac{1}{2}$ per cent. Documents on this interesting subject are being studied by M. Duclaux, of the Pasteur Institute.

IN HONOUR OF QUININE.—M. Lesage has drawn attention, in the daily newspaper that boasts the largest circulation in France (*Petit Journal*), to the fact that while statues have been erected both in France and Algeria to Dr. Maillot, who only popularised quinine, the discoverers of this alkaloid, the pharmacists Pelletier and Caventou, have "not even a commemorative slab." But, as has been already reported in these columns, the energetic M. Demazières has this matter in hand, and the various French pharmaceutical associations are likely to supply the omission before long.

SECRET REMEDIES.—At the last meeting of the Academy of Medicine, Dr. Regnard's report on the secret remedies proposed to the Academy by sanguine inventors was not without its comic side. His list included "the cure of tetanus by face-powder" (*poudre de riz*), and a pomade composed of chicken-bone jelly and other animal ingredients, which "in a catastrophe would cure 85 per cent. of the sufferers, and even in cases of inevitable death would procure a painless extinction of the vital spark such as is experienced by centenarians." An "antifebrifuge" wine was offered by a third genius.

ANOTHER VICTIM OF ACETYLENE.—M. Huguet, a plumber in the Cité Prest, Paris, met with his death in a terribly sudden way last Wednesday through the accidental explosion of a small gasometer which he used to produce the acetylene necessary to light his workshop. The apparatus, which was only constructed to contain some 14 cubic feet, was nearly empty at the time. M. Huguet was probably under the impression that it was entirely so, and, as it was placed in a small dark shed, M. Huguet took a candle to examine it. It was probably while he was opening the screw which secured the cover that the explosion occurred. The cover, flying up, almost tore off the unfortunate man's nose, fractured his forehead, and his workmen, attracted by the explosion, entered only to find their employer's disfigured corpse.

PROFESSOR GUIGNARD, of the Paris Superior School of Pharmacy, was (as generally foreseen) the successful candidate for the vacant seat at the Academy of Medicine. His unanimous election, and the hearty applause which greeted it, show that he is as popular among the medical profession as at the School of Pharmacy. Although only 41 years of age, he possesses a list of scientific titles which many of his seniors might envy. He took his degree of First-class Pharmacist and Doctor of Natural Science in 1882; he was a prize-winner at the School of Pharmacy, also at the competition between hospital-pharmacists (1878 and 1880), at the Institute (Bordier prize, 1891), and at the Academy of Medicine (Buignet prize, 1894). He has been successively a hospital-pharmacist; a head of laboratory at the Pitié Hospital; a botany preparator and assistant naturalist at the Museum; a botany professor and director of the Botanical Museum at Lyons. It was on the resignation of M. Chatin that he was appointed to the professorship of botany at the Paris School of Pharmacy (1887). Since 1894 he has been President of the Botanical Society of France and Vice-president of the Society of Biology. Elected to the Academy of Sciences in 1895, he is one of the four youngest members of that body.

DR. YERSIN.—The *Monde Illustré* interviewed Dr. Yersin before he left for China, and states that "the English Government has begged him to stop at Bombay" en route. The doctor is a naturalised Swiss, and with that thin worn look which characterises the Pasteurian savant. Among his exploits is body snatching, for the respect of the Chinese for corpses prevented his obtaining the matter and blood of the

victims of the plagues otherwise than by stealth and by night. His description of the epidemic that is ravaging the East is worth quoting. "The plague is the cleanest of diseases; but a little fever, a little fatigue, a boil, a few hours of suffering, and one dies without the repugnant complications of other epidemics." The Hong Kong plague three years ago, he says, was "Very much like the spotted plague of the Middle Ages. Incubation of four to six days, then the disease brusquely declares itself, prostration follows. A high fever comes on suddenly, sometimes accompanied by delirium. Only one boil usually appears, often the first day—in 75 per cent. of the cases on the groin, in 10 per cent. on the arm-pit, rarely on the neck or other parts. This boil swells out to the size of a hen's egg. Death arrives in forty-eight hours, often sooner. If the patient lives more than five or six days, the excrescence softens and can be pierced." Sometimes no boil appears. "About 95 per cent. of the patients in the hospitals" of Hong Kong died, he reports.

Foreign and Colonial News

A DRUG-THEFT IN CEYLON.—A. de Silva has been sentenced to three months' rigorous imprisonment by the Police Magistrate of Nuwara Eliya, Ceylon, for theft of a bottle of musk and some surgical instruments from the shop of Messrs. Jas. McLaren & Co., at Nuwara Eliya. He appealed to the Higher Court, but the sentence was confirmed.

MEDICINES AND THE CUBAN INSURRECTION.—The Paris correspondent of the *Daily News* writes that the latest measure of General Weyler, the Spanish Commander-in-Chief in Cuba, is the prohibition of the sale of medicines. "We should have to go to China," adds the correspondent, "to find a General treating chloroform and antiseptics as contraband of war, the idea being that wounded enemies may die of gangrene or under the torture of a surgical operation." The prohibition, we should think, can hardly refer to ordinary dealings in drugs in that portion of Cuba which is under Spanish control, but the message is obscure on this point.

A CHEMIST TRIED FOR MANSLAUGHTER.—Mr. Nicholas Dassoy, a chemist in Tangier, Morocco, has recently experienced the advantage of being a British subject. Mr. Dassoy was accused of having killed a Moor by a blow on the head, but on account of his acquired British nationality he was tried in H.M. Consular Court instead of by a native judge. It was then shown that the Moor died through an abscess on the liver and other complications; and there was no evidence worthy of credit that Mr. Dassoy—reputed for twenty years a most kindly and benevolent man—had even touched the man. Mr. Dassoy was promptly acquitted. What his fate would have been in a Moorish Court may be easily imagined.

JAPANESE CUSTOMS TARIFF.—A new Customs tariff may shortly come into force in Japan. That country has long been anxious to revise its duties, but it cannot do so until arrangements have been made with all the countries with which Japan has commercial treaties. Most of these arrangements have been made, and those with the five remaining countries—Austria-Hungary, Spain, Portugal, Sweden, and Switzerland—will probably be concluded before the end of February. Notice will then be given of the enforcement of the new tariff, which, according to the treaties, is to go into operation six months after the work of revision is completed, and will therefore probably become operative in September. Legislation will be necessary with respect to articles not included in the tariff schedule, and a Bill for that purpose will be submitted to the Diet next Session.

EGYPTIAN REQUIREMENTS.—Complaints having been made to the Foreign Office that British firms were placed at a disadvantage in tendering for supplies for the Egyptian police, as they were unable to obtain sufficient information as to the articles required Lieutenant-Colonel Western, the London Agent for the Egyptian War Office, has been requested to issue the usual tender forms to suitable firms; to provide facilities of inspection to view the samples; and generally to carry

out the orders of the Egyptian Government with regard to these matters. The only requirements in the list of interest to our readers are sponges, brushes, blacking, soft soap, saddle-soap and beeswax. Samples of these may be sent to Lieutenant-Colonel Western at Broadway Chambers, Westminster, with quotations. It is quite possible that medicines and veterinary goods may also be required.

ALLEGED CORRUPTION IN THE TRANSVAAL CIVIL SERVICE.—At a recent sitting of the First Chamber of the Transvaal Volksraad a member, it is said, called attention to certain payments made by the Government. Among them was a bill from a pharmacist, at Bloemhof, for supplying drugs to native prisoners in the local gaol. In this bill ordinary mixtures and lotions were charged at 24s. per bottle, and patent medicines at 30s. per bottle. A medical man was instructed to examine fifty natives, which he did in a day. He charged 150*l.* for the "lot." A Government clerk at a one-eyed hamlet known as Smitsdorp claimed 10s. 6*d.* each for eighteen large bottles of ink. It is calculated that this supply will last him fifteen years if he writes uninterruptedly twelve hours a day. It is well to remember, however, that these and other reports of administrative corruption receive currency through the journals owned by the international Johannesburg financiers, and are not necessarily true.

A SINGULAR POISONING CASE IN AUSTRIA.—An extraordinary case of suicide is reported from Villach in Carinthia, Austria. A master named Kropp at the grammar school there some months ago became nervous and excited and had to be given leave of absence. He began to have sleepless nights and asked his doctor to prescribe very weak morphia powders. He got as many of those as he could, ordering them from all the chemists' shops in Villach. But he seems to have been afraid that it would take him too long to get enough poison to kill himself, so he tried another way. A few days ago he went into a chemist's and showed the doctor's prescription. The assistant brought out a small box of morphia, which he opened and placed before him. The schoolmaster asked him whether it was pure, and whether there would be enough to kill a man. "Enough to kill more than one," the clerk answered, as he took the scales and an ivory spoon out of the drawer. He had these in his hands when the man, quick as lightning, seized the box and poured the contents into his mouth. The pharmacist and a second assistant hearing the cries of the dispenser behind the counter ran into the shop, and all three ran about for antidotes. Then the schoolmaster took a loaded revolver out of his pocket and threatened to shoot any man who would dare to approach him to prevent his death. "And now give me a chair to die in," he said. "Don't you see that if I am convinced that in another month I should be taken into a madhouse, the best thing for me is death?" In the meantime a doctor had been fetched, but the man grew weaker and weaker, and died on the way to the hospital. He is described as a young man of great promise.

ARSENICAL-SOAP PROSECUTION IN N.S. WALES.—At Newcastle, N.S.W., on October 9, George Firkin, of that town, was proceeded against for offering for sale arsenical soap. The Government analyst reported that the soap contained an infinitesimal trace of arsenic. Defendant pleaded not guilty, his solicitor quoting the case of the Pharmaceutical Society of England against Delve, showing that although the defendant in that case had sold "licoricine" containing morphine, there was not sufficient poison in the compound to endanger the public health, and the case was dismissed, as was also an appeal afterwards made by the British Pharmaceutical Society. The Newcastle Bench eventually found in favour of defendant and dismissed the case.

PROPOSED ADDITIONS TO THE VICTORIAN POISONS SCHEDULE.—At the last council meeting of the Pharmaceutical Society of Victoria it was resolved to submit to the Pharmacy Board a list of new articles to be included in the Poisons Schedule—viz., acetate of lead and all preparations containing it, antipyrine, nitrate of silver, croton oil and preparations, sulphate of zinc, and sulphate of copper. The inclusion of the last-named in the Poisons Schedule of New South Wales has caused a good deal of trouble to the Pharmacy Board, and has attracted much attention in the Colonial Parliament. The extensive use of "bluestone" for wheat-dressing has led to its general sale by storckkeepers in all parts of the colony, and naturally they do not understand why they should be denied the privilege of selling an article they have handled for years, especially as there have been no recent cases of poisoning.

THE DISTRIBUTION OF AUSTRALASIAN PHARMACISTS.—In view of the schemes for reciprocity in pharmaceutical certificates now in the air in various colonies, it is of interest to see how many chemists are registered in each colony, and where, according to the latest information, they are domiciled. The following table gives such figures:—

Domiciled in	Issuing Board						
	Vic.	W.A.	Tas.	N.S.W.	N.Z.	Q.	S.A.
Victoria	757	—	—	8	9	3	2
New South Wales ..	47	—	—	465	10	16	5
New Zealand	4	—	—	1	315	—	—
Western Australia ..	8	66	—	7	—	3	—
South Australia .. .	3	—	—	—	—	—	174
Queensland	12	—	—	1	—	165	1
Tasmania	16	—	69	1	2	—	—
Fiji	2	—	—	—	—	—	—
East Indies	1	—	—	—	—	—	—
France	1	—	—	—	—	—	—
Great Britain .. .	4	—	—	1	—	4	—
America	2	—	—	1	—	—	—
"Australia"	—	—	—	—	1	—	—
Total abroad ..	100	—	—	32	23	26	8
Total at home ..	757	66	69	465	315	165	174
Total registered ..	857	66	69	497	338	191	182

Australasian News.

THE following notes are mainly based upon information contained in *The Chemist and Druggist of Australasia*, published at Melbourne. Copies of that paper (price 6*d.* each) and information concerning it may be had upon application to the Publisher, C. & D. of Australasia, 42 Cannon Street, E.C.

THE VICTORIAN POISONS ACT AMENDING BILL.—On December 3 the Premier of Victoria introduced a Bill into the Colonial Parliament to amend the Poisons Act of 1890. It consists of only five short clauses, and its object is to give authority to Secretaries of Shire Councils to sell poisons for the destruction of vermin. The reason for the Bill is that various Shire Secretaries have been prosecuted by the Pharmacy Board for the sale of "Toxa" (a rabbit-poison consisting of apple jam mixed with strychnine) and other vermin-poisons, while ratepayers in rabbit-infested shires have felt it a hardship to have to buy rabbit-poisons from chemists at what they considered were exorbitant prices.

EARLY CLOSING IN VICTORIA.—In a debate on the Factory and Shops Act Amendment Bill, held in the Victorian Parliament on November 24, the chemists' half-holiday came under discussion, and gave rise to a long debate. Many members thought that chemists should be exempted from the Act, and one prominent legislator, Sir John McIntyre, who is an old chemist himself, moved an amendment that "Chemists shall be exempt from the provisions of this Act as far as they relate to any fixed time for closing, so long as their assistants shall be allowed a half-holiday at least in every week." It is understood that a considerable number of chemists were in favour of this amendment, which, however, was opposed by the Government. Mr. Peacock, the Chief Secretary, pointed out that if a chemist made up a prescription and sold it inside his shop during the hours when he was supposed to be closed, he would not be breaking the law as long as the shop was not open for regular business. There was one drug firm, he said, which was prepared to do all it could to defeat the Act, and he believed it was that firm that was getting up the agitation for exemption. The amendment was defeated by 45 votes against 26.

The Winter Session.

SOCIETY OF CHEMICAL INDUSTRY.

LONDON SECTION.

A SPECIAL MEETING was held at Burlington House on Monday evening for the reading and discussion of a paper by Mr. W. J. Dibdin, F.I.C., F.C.S., the London County Council's chemist, on "The Character of the London Water Supply," which he communicated by request. The large audience which had gathered, and which included many hydranalysts specially invited, seemed somewhat disgusted that

A PERSONAL MATTER

had first to be threshed out, Mr. Otto Hehner having asked permission to reply to a note by Dr. J. Lewkowitsch in the December issue of the journal of the Society, in which one of Mr. Hehner's processes was criticised. The first sentences of Mr. Hehner's reply showed that his ire was at white-heat. He said Dr. Lewkowitsch had given him the lie direct, had been discourteous to him, and had not supported his assertions by facts. There was a great deal more of this sort of thing right throughout the twenty minutes that Mr. Hehner spoke, but we have no room for more of it. The point of the dispute is this: Mr. Hehner and his assistant, Mr. Mitchell, have published papers in the *Analyst* in which they show that bromine is absorbed by fats in proportion to the number of unsaturated atoms in the fats. Thus, oleic acid which has one unsaturated atom absorbs one Br., linoleic acid absorbs two, and linolenic acid four. The absorption takes place with such regularity that they suggested it might be used instead of Hübl's iodine absorption, the bromine percentages multiplied by 1.587 giving the Hübl number, or a very close agreement with it. It was pointed out that Dr. Lewkowitsch's figures proved this statement to a great extent, and Mr. Hehner quoted from Mr. Rowland Williams and Mr. Mitchell in support of his assertions. He showed that the point of great difference between him and Dr. Lewkowitsch was that he found that linseed oil absorbed 120 per cent. of bromine, and Dr. Lewkowitsch found 10 per cent. He maintained that he was right, and that the reaction is so regular that it can be measured by the rise of temperature determined by conducting the experiment in a vacuum-jacketed tube. The rise of temperature in degrees centigrade multiplied by 5.5 gives the bromine absorption number.

Dr. LEWKOWITSCH, in reply, said that Mr. Hehner's reply was one part personal, a second part dealing with the subject proper, and the third part padding. Mr. Hehner was like Bismarck; he prepares his enemies as he would like to have them, then whacks them. He had nothing to add to what was in his paper regarding Mr. Hehner's process. His experiments were carefully done. He obtained agreement in the case of olive oil and rape oil; but in all other cases the discrepancy was very great, in some cases even enormous. It was for Mr. Hehner to explain that, not him.

After other speakers had made some remarks, Mr. C. E. CASSAL won the sympathy of the meeting by saying that this was entirely a matter which should be settled privately.

Nevertheless, Mr. HEHNER threw in another hot reply, and caused much laughter by saying that the oleic acid tetrabromide and hexabromide could be produced by the tubful quite easily, and he showed some of it.

Dr. MESSEL, the Chairman, in calling upon Mr. Dibdin, apologised to him for the delay there had been, explaining that if he had known so much time would be occupied he would have hesitated to allow the interruption.

Mr. DIBDIN then began his paper on

LONDON WATER.

It was a long one, for it would occupy about five pages of this journal, but Mr. Dibdin made a record by reading it within half an hour. It may be explained, for the benefit of those who are not Londoners, that the great metropolis is governed in the greater major by the London County Council. The inhabitants of the big village receive their supplies of gas and water from private companies. The County Council has a control of the quality of the gas, for it has stations all over London where chemists examine

it regularly, and if it is below the standard the gas company supplying it has to pay a penalty. The Council has nothing whatever to do with the water; but as there is a section in the Council which desires to create a municipal water supply, or control the companies, the Council's chemists, of whom Mr. Dibdin is the chief, have for several years been regularly analysing the water supplied by nine companies. Six of these companies take their water from the Thames, two from other rivers, and one from below the chalk of the great Thames basin. Professor Dewar and Mr. Crookes publish on behalf of the companies periodical chemical reports on the water supplied, and Dr. E. Frankland acts in a similar capacity for the Local Government Board. Mr. Dibdin is supposed to be the champion of the opposite, or people's party. These purely parochial factors may enable those whose chief interest in London is that it is the source of that pure river of information, THE CHEMIST AND DRUGGIST, to understand why the London water supply is of so high scientific interest. To put it in another way, a 100% share in one of the water companies is worth to-day 125,000£, and if the County Council has to buy them it would like to get them somewhat nearer par value—which may be a reason for difference in scientific opinion. We now proceed to give our epitome of Mr. Dibdin's points:—

Suspended Matters in the Water.—Mr. Dibdin holds the opinion that too little importance has been attached to suspended matter. He admits that this may be because analysts have not known how to reckon it, so he has invented what he calls the micro-filter (*C. & D.*, xlvii.), by means of which he measures the amount of the suspended matter collected on a hardened filter-paper. The amount observed should, he says, be returned in analytical reports, and the deposit should be bacteriologically and microscopically examined, so as to see what it is composed of. Moreover, the factor always tells us whether the companies are filtering their water well or not. As an example of the figures quoted by Mr. Dibdin from many thousands of analyses we need only mention one. A company supplies 131.6 million gallons of water daily, containing 0.0022 dry-grain per gallon of avoidable suspended matter—i.e., equal to 67½ tons of mud per annum. It should be noted that comparison of the micro-filter measurements and weighings of the mud shows that the former are wonderfully near the truth, and another important fact has by comparison been determined—viz., that the nitrogen percentage in the sediment is practically the same as in the sediment of the unfiltered Thames-water, which is a proof that the amount of sediment is a measure of the efficiency of the filtration.

Microscopical Tests.—The conclusion drawn from the consideration of the relative chemical character of the suspended matters in the unfiltered river-water, compared with those in the filtered supplies, has been borne out by the results of the daily microscopical examination of all samples collected, which are substantially as follows:—

						Samples Examined	Returned as Objectionable
							Per cent.
Kent ..	..	..	..	..	..	284	18
Southwark ..	..	..	..	..	..	286	47
Lambeth ..	..	..	..	..	..	284	34
Chelsea ..	..	..	..	..	..	282	22
Grand Junction ..	..	..	..	..	..	285	25
West Middlesex ..	..	..	..	..	..	285	24
Average ..						..	30
New River ..	..	..	..	..	..	286	21
East London ..	..	..	..	..	..	283	30

"Objectionable" samples are those which contained a comparatively large quantity of *débris*, microscopic eels or anguillulæ, &c., decaying *débris* infested with bacteria, the larger infusoria, such as paramecium, rotifera, &c., epithelium scales, &c. There is, it has been found, a practically complete coincidence between the various methods of examination—namely, the physical (i.e., weight of suspended matters), the chemical and microscopical, the biological examination as to the actual number of bacteria present in

a given sample of water, and the strictly chemical examination as to the quantity of oxidisable organic matters dissolved in the water.

Bacteriological Examination.—Samples of London waters have been examined daily by the Koch plate method, and it appears from the results that the company which supplied water containing the largest quantity of suspended matters (Southwark and Vauxhall) supplied an average of 352 microbes per c.c. of water throughout the year, this being the largest number of any of the companies. In January the monthly average was 838, which gradually decreased during the year to 78 in October, but rose again to 427 in November, corresponding to the rise of microbes in the Sunbury river water of from 9,900 in October to 45,263 per c.c. in November. Mr. Dibdin submitted full sets of figures ancient this section of the subject, and compared them with the chemical factors to show that there is a distinct advantage in bacteriological control.

Principal Considerations.—The next point of the paper dealt with the equality of the water from the proposed Welsh source, and the results showed that the organic impurity of the unfiltered Welsh water is a little less than that in the average filtered London water. Mr. Dibdin pointed out, however, the highly important fact that by softening London water by Clarke's process from 19.5° to 5.5° of hardness it can be made quite as pure as the Welsh water. He strongly advocated the supervision of London's water by the County Council in the same way as the gas, showing from statistics that whenever it became known that the Council was playing the part of the detective the quality of the water improved.

Mr. W. T. BURGESS, F.I.C., assistant to Dr. E. Frankland, in opening the discussion, denied the correctness of Mr. Dibdin's last inference; but he afterwards admitted that he had got hold of the wrong figures. He put a few questions to Mr. Dibdin and spoke temperately, but did not discount the paper at all.

Dr. DUPRE followed. He supported Mr. Dibdin, but admitted that no one gets so good results with Dibdin's micro-filter as Mr. Dibdin. He regarded the suggestion to estimate the quantity and quality of the suspended matter as most important, and its advantages would be specially felt in time of epidemic. As an example, he quoted the case of Hamburg and Altona, which derive their water-supply from the same river, the former not filtering, but the latter filtering. When cholera came along Hamburg was stricken with it; Altona was free, but for two days its filtering-arrangements broke down, and immediately there were cholera-fatalities which would be equal to 5,000 per day in a population such as London. The moral is: Let London water be filtered and watched. There is a population of 1,000,000 above the Thames intakes, and all their sewage goes into the Thames. What would be the result if an epidemic broke out?

Mr. A. E. FLETCHER pointed to the saving there would be if London had a soft water; and Dr. MURPHY, Mr. WM. THORPE, Dr. VOELCKER, and Mr. JOHN NEWLANDS continued the discussion until Dr. SAMUEL RIDEAL suggested that it should be adjourned, which, after some hesitation, the meeting decided to do.

LIVERPOOL PHARMACEUTICAL STUDENTS' SOCIETY.

THE seventh annual dinner of this Society was held on January 14 at the Alexandra Hotel. The company included Drs. Nevins, Larkin, and Logan, Messrs. J. J. Evans, Herbert U. Evans, Charles Sharp, F.L.S., R. H. Mitchell, C. H. Pierson, Harold Wyatt, jun., R. C. Cowley, and P. H. Marsden. In the absence of the President, Mr. Pierson occupied the chair. Messrs. Tinsley, Williams, Thoms, Hughes, Kilpatrick, Newton, Wright, and Barlow rendered a musical programme admirably, and the post-prandial speaking was also excellent.

ABERDEEN JUNIOR CHEMISTS' ASSOCIATION.

LAST week's meeting was devoted to questions, of which there was a good supply, and all of them received a fair amount of discussion. Some of the most important questions

were:—"Is it necessary for a customer to sign the poison-book oftener than once?" The balance of opinion was that the book should be signed for each transaction. "Capillaire: what is it?" Majority for simple syrup and orange-flower water. "Should the sale of carbolic acid be interdicted?" Majority in favour of a restricted sale. "What is opodeldoo?" Majority—lin. saponis. "What is lin. saponis co.?" Majority—lin. saponis. "Pil. opii is ordered, what should be given?"—The opinion was that, if ordered in large doses, such as 5 gr., pil. saponis co. should be given; if in small doses, such as 1 gr., pulv. or gum. opii should be given in pill form. "Are the Board of Examiners properly elected?" was one of the questions, and it was interesting to hear some of the embryonic aspirants gravely declare that the method of selection is capable of improvement.

EDINBURGH CHEMISTS', ASSISTANTS', AND APPRENTICES' ASSOCIATION.

At a meeting of this Association, held in the Pharmaceutical Society's House, Edinburgh, on January 15, Mr. JAMES MCBAIN, President, in the chair, the following papers were read:—

CHLOROFORM-WATER.

By Peter Boa.

The author said it had been alleged that the chloroform-water of the B.P. did not keep well, and he had conducted some experiments to test the point. In October, 1894, he prepared three solutions. No. 1 was the chloroform-water of the B.P., and contained chloroform m xv , and distilled water $6\frac{1}{2}$ fl. oz.; No. 2 was a similar solution to which zij . of rectified spirit was added; No. 3 was made by using an equivalent quantity (zv .) of spirit of chloroform. The solutions were placed in partially-filled corked bottles, kept in the pharmacy, and opened several times weekly for about six months, and then about once a month up till the present date. The tastes of 1 and 2 were at first nearly alike, but 3 was not so nice. Gradually 2 and 3 deteriorated in taste and became less palatable. At the end of the time ($2\frac{1}{2}$ years) 1 was still in a quite usable condition. Nos. 2 and 3 had to a considerable extent lost the characteristic flavour. No. 1 had an acid reaction, and gave a distinct cloudiness with silver nitrate. Nos. 2 and 3 were neutral, and gave a faint haze with silver nitrate. Spirit of chloroform in, perhaps, three-fourths of the mixtures in which it is prescribed is added merely for flavouring purposes, and he thought this end would be better attained by using chloroform-water. The cloudiness with silver nitrate in 1 seemed to indicate a slight decomposition, and 2 and 3 seemed to indicate some preservative effect, due to the alcohol, but the loss of flavour was not explained.

The next paper was on

AN ADULTERATION OF PIMENTO.

By C. A. Macpherson.

Pimento is described in the B.P. as being of a dark-brown colour. While this is correct in a general way, yet, as usually seen in commerce, it is a mixture of various shades, ranging from a grey-brown to a very dark brown. A few months ago, however, a sample came into my possession in the ordinary course of trade which differed very much from any I had previously seen. It was of a reddish colour, and though somewhat resembling the shade of some of the berries occurring in ordinary parcels, it still seemed different, and was too uniform in tint not to arouse suspicion. On closer examination it was seen to have a dull earthy appearance, and when viewed through a lens brown patches could be seen on the berries particularly near the ring, formed by the remains of the calyx. It was found that the colour could be removed by washing, was insoluble in water, and very slowly acted upon by hydrochloric acid. A small quantity having been obtained and a solution formed, potassium ferrocyanide was added, with the result that the blue colour indicative of a ferric salt was obtained. It was evident that the colour was due to ferric oxide, probably in the form of Armenian bole. I am informed that the dealers from whom the sample was obtained, on being asked, stated that some of their customers wanted it coloured.

The next paper was on

BELLADONNA-PLASTERS.

By J. Rutherford Hill.

Mr. Henry's recent paper on "Uniformity in Pharmacy" indicated that there was a difference in practice in Edinburgh as to what should be supplied when belladonna-plaster is prescribed. The author had recently had brought under his notice a series of seven different types of belladonna-plaster, all of which had been supplied in the ordinary way in various places when a belladonna-plaster was asked for over the counter. An examination of these revealed an even greater variety, as will be seen by the following:—

No. 1. American, rubber basis, no lead, spread on felt, dark green, relatively high proportion of atropine.

No. 2. American, rubber basis, no lead, porous, spread on muslin, dark green, relatively high proportion of atropine.

No. 3. English, like rubber basis, but more resinous, no lead, porous, spread on muslin, light bright green, contained no alkaloid.

No. 4. English, similar basis to No. 3, but contained lead, porous, spread on muslin, very dark green, contained no alkaloid, labelled "Poison."

No. 5. Spread on leather, soap and resin-plaster basis dark olive green, medium proportion of atropine, apparently the belladonna plaster of the 1867 Pharmacopœia.

No. 6. Spread on leather, soap, and resin-plaster basis, very pale olive green, small proportion of atropine, labelled "Poison."

No. 7. The official brown-coloured plaster spread on leather, more than medium proportion of atropine, labelled "Poison."

Thus in every instance a different article was supplied, and only in one case (No. 7) was the official plaster supplied. It seemed to be the case that the public desired the green plaster, and it was interesting to note that the U.S.P. of 1890 had reverted to the green plaster, and some recent work by Mr. Naylor indicated a similar tendency in this country. There had been many complaints as to the present B.P. plaster, which was said to be much too soft, and Mr. Boa had suggested a new formula to meet this objection (*Year Book*, 1895). He observed that when the plaster made from the root-extract was first introduced by Mr. Martindale at University College, he used lead plaster alone as the basis, and he thought that would give a firmer plaster. There had also been several complaints that the plaster produced an eruption or blister. Gerrard mentioned a similar complaint about the leaf-extract plaster, but such complaints had been much more common since the 1885 B.P. form was adopted. This result was attributed to the plaster being too strong in atropine; but some of the rubber-basis plasters were as strong, or stronger, and no complaints had been made about them. In the case of two of the seven samples no alkaloid at all was present, and this would be awkward for the sellers if the public analyst appeared on the scene.

P.A.T.A. Meeting at Newcastle-on-Tyne.

ON Thursday evening, January 14, the chemists and druggists of the Tyneside were invited to hear and discuss the claims of the P.A.T.A. The attendance was the largest that had been seen at a trade meeting in Newcastle for several years, amongst those present being Messrs. Bell, C. Ridley, T. Maltby Clague, G. Radford, R. H. Bell (Sunderland), J. Harvey, A. B. Porter, F. G. Thompson, W. Atkins, W. W. Gale, B. T. Ord, Lancelot Arrowsmith, R. Elliott, F. R. Dudderidge, J. H. Foster, R. Ellis, C. Duncan, G. Weddell, H. C. Harrington (Frog in your Throat), W. Buckley, G. F. Merson, H. J. Hall (Hall's Coca-wine), J. D. Rose (Jarrow), G. B. Errington (Ismay & Sons), R. W. Branch (Bovril, Limited).

Mr. G. Weddell was voted to the chair, and letters of apology for absence and with sympathy for the movement were read from Mr. Barnard S. Proctor, J. Bolam, A. H. S. Baker, Davidson, Rheeder, &c. Mr. Proctor said he was sorry to say that he now finds it undesirable to take an active part in public business, but he heartily sympathises with all efforts to promote fair and straightforward dealing, and looks upon the action of the P.A.T.A. as the most promising

attempt that has been made to secure a working profit upon one of the departments of work which chemists are called upon to undertake.

Mr. N. H. Martin had also written, regretting his inability to be present, as he had to be in London on that day. "In the retail," he said, "I never sell proprietary articles under their face-value, though for many years some of my neighbours have sold them at less." He saw no reason to alter his practice. In his opinion, the profit on these things had never been excessive, and had only contributed its proper share to the expenses and risks of carrying on business. At the same time he did not wish to interfere with his neighbours in regard to the way in which they carried on their businesses. He was sure chemists must be under a considerable obligation to Mr. Glyn-Jones for the energy and time he was spending over this matter. He fully sympathised with his objects, but did not think he would be successful on more than a very limited scale.

The Chairman's introductory remarks were of a retrospective character. Competition took its present keen form some sixteen years ago. He regretted that his knowledge of the P.A.T.A. and its workings was somewhat meagre. He hardly thought the matter as important as it had formerly been, and he had found that where drugs were excessively cut the quality suffered. His attitude towards the P.A.T.A. was that of a learner with an open mind.

Mr. Glyn-Jones, in a fairly lengthy speech, opened the case for the P.A.T.A. He received an attentive hearing from the meeting. He emphasised the fact that the size, length, and importance of the protected list would be almost in direct proportion to the support given to the movement by retailers. Proprietors were sometimes apprehensive lest any increase in the cost of their articles to the public would tend to decrease the sales of their articles. In his opinion the sales of medicines depended less upon the selling-price than almost any other commodity. The public did not take drugs because they were cheap. However, it was for the retailers to prove to proprietors that the advantages of securing their goodwill by ensuring them adequate profits would far outweigh any disadvantage which the corresponding increase of cost to the public would appear to result in. He instanced the case of Hall's coca-wine, the proprietor of which was present at the meeting, as a proof of his contention, for since protected profits had been instituted in regard to that article its sales had largely increased. He concluded with a strong appeal for support, and pointed out the disadvantage which the trade in Newcastle were under in not having a local organisation to which such matters could be referred, and from which the consensus of opinion of the members of the trade in the district might be obtained.

Mr. Lancelot Arrowsmith proposed the following resolution:—

That this meeting of chemists in Newcastle and district cordially approves of the proposals of the P.A.T.A., and strongly urges upon the proprietors the advisability of adding their articles to the protected list.

The keen competition in the prices of proprietary articles had made them more alive to their own interests, and in cases where prices had been reduced to the lowest margin they had been forced to introduce and push their own preparations. He welcomed the plan proposed by the P.A.T.A.

Mr. J. D. Rose, of Jarrow, seconded the resolution, and said he had been a supporter of the movement from its commencement.

Mr. Radford spoke of his experience in connection with the business in various districts in the north country. He would assist the movement in any way he possibly could.

Mr. Maltby Clague deplored their want of cohesion as a trade, and emphasised the value of combination under modern conditions of life. He suggested that in proprietary goods, face-value was a convenient booking-price; but that for cash the minimum price, or as much more as could be wisely obtained, should be charged. It was only by combination that retailers could make their influence felt. If the Association was not being carried on exactly as they wished, it was their duty to become members, and by having a direct control in its management, to give whatever shape to its purpose they wished. He looked upon the movement as an honest attempt to deal with a grave evil, and that it

was a chance which, if they let slip, they would not again secure.

Mr. R. H. Bell, the Secretary of the Sunderland Association, Mr. Wright, Mr. Greenwell, and other chemists spoke and raised points, which were dealt with by

Mr. Glyn-Jones, who said that no doubt the giving of a bonus off the minimum price, as is done by co-operative stores, was a form of cutting. The Association expected retailers to bring under its notice any cases of cutting which occurred in their neighbourhoods, and unless this was done he thought they would have themselves to blame if they were undersold in regard to the protected articles. It was necessary to consider the greatest good to the greatest number, and he held that a medium guaranteed profit was preferable to a larger but uncertain margin. Besides, no one was compelled to charge the minimum price.

The resolution was then carried unanimously.

Mr. Glyn-Jones urged strongly the necessity for the formation of a local association at Newcastle, and said that the number present at that meeting was a proof that sufficient interest was taken in trade matters to warrant his opinion that such an organisation was practicable. He had found it of great service to the P.A.T.A. to be able to lay certain matters before the local associations throughout the country, and he hoped that the meeting would not separate until something definite was done in this direction.

Most of the speakers expressed themselves in a similar manner, and a resolution was passed affirming the desirability of taking this into consideration, and the Local Secretary of the Pharmaceutical Society, Mr. Maltby Clague, was asked to call the trade together at an early date to take action in this direction.

Mr. Clague asks us to state that in accordance with the instructions he received at the above meeting as Local Secretary of the Pharmaceutical Society he has sent out circulars to all chemists whose addresses he has in Newcastle and Tyneside inviting them to a meeting at the Crown Hotel on Wednesday, January 27, at 8 P.M. He asks that any to whom he may have omitted to send the invitation will accept this intimation and come to the meeting.

In the *Photographic Dealer*, for January, appears a letter from Mr. George R. Barclay, inviting dealers in photographic goods to form a section of the Proprietary Articles Trade Association, and giving an outline of the constitution of that body. Mr. Barclay suggests a meeting of the trade, and the editor of the *P. D.* supports his proposal.

Mr. J. John Snook, of 83 Mortimer Street, W., the agent in this country for Vin Mariani and Santal Midy informs us that he has added those articles to the P.A.T.A. list, and has fixed the minimum prices as follows:—Mariani Wine, advertised 45s. per dozen, or 4s. bottle; minimum selling prices, 40s. per dozen, 23s. per half-dozen, or 3s. 6d. per bottle; minimum trade price, 35s. per dozen or part of dozen; in cases of 6 dozen 10l. 4s. net, and in 6-case lots 3 per cent. discount. Santal Midy, minimum cutting price, 3s. 6d. per bottle, and minimum trade price 33s. per dozen or part of dozen; per 12 dozen, 18l. net.

Mr. Jones gave an address on the aims and objects of the P.A.T.A. to the Midland Chemists' Assistants' Association on Wednesday evening. After some discussion Mr. Lawton moved—

That this meeting of the Midland Chemists' Assistants' Association heartily endorses the action of the P.A.T.A. in seeking to improve the prices obtained for proprietary articles, and urges the strengthening of that Association towards obtaining still further protection for the benefit of the trade.

Mr. Bindloss seconded the resolution, which was passed unanimously. Mr. Jones was thanked for his address.

It is stated that several of the London large dealers in proprietary articles have held several meetings lately to discuss the possibility of contesting the legality of the P.A.T.A.'s scheme.

Bacteria and Disease.

IN the heart of London stands Gresham College, a memorial of one of the City's famous Lord-mayors, Sir Thomas Gresham. Here throughout the winter popular science is given away for nothing, the professors of the College lecturing about the hour that offices close on subjects which, one would suppose, should bring large audiences. The attendance was poor on Tuesday evening when a *C. & D.* young man, who possesses an unslakeable thirst for knowledge, dropped into the lecture-theatre to hear what Dr. Symes Thompson, the Professor of Medicine, had to say about "Bacteria and Disease." He found himself in closer association with the City fathers than is generally his lot. The lecture was eminently suited to the audience, and was confined to the topic "Minute Organisms as the Cause of Disease." Dr. Thompson, in the course of the lecture, said it was impossible to keep in touch with the progress of bacteriology unless entire attention was devoted to it, and if success was to be achieved one branch alone must be taken up and carried out to its momentous issues. Pasteur and the silk-worm and vine diseases, and Lister's work in connection with antiseptics were spoken of, and in the latter part a few facts were given in reference to the power of antiseptics. Thus: 1-per-cent. solution of carbolic acid kills the anthrax bacillus in two minutes, but the bacillus spores require a 5-per-cent. solution, which stops their vitality in four days. A 5-per-cent. solution of carbolic acid is found to disinfect bilge-water in forty-eight hours, whereas 1-in-1,000 solution of corrosive sublimate does this in a few minutes. Lister made a number of experiments with carbolic acid, corrosive sublimate, and other substances, and found that the sublimate kills the diphtheria bacillus spores present in a blanket, but one cannot be confident that the carbolic acid will do it. This was afterwards controverted by Professor Cruikshank, and modified by Lister. Dr. Thompson mentioned that he once had a conversation with the late Mr. Nobel on the use of antiseptics for the arrest of disease, and Nobel thought that medical men were rather lacking in fertility of resource, and in not paying sufficient attention to bacteriology. The question whether the microbe is of vegetable or animal origin was then dealt with, the lecturer showing conclusively that it belongs to the vegetable kingdom. The rinderpest in South Africa next claimed his attention, and he said that Dr. Edington, who is investigating the matter, has established a laboratory at Grahams-town, and may be regarded as the discoverer of the microbe of rinderpest; but there is still some doubt upon the point, Dr. Simpson, of Calcutta, also claiming to be the discoverer. Dr. Koch, who is also at work at the Cape, is of opinion that a rinderpest serum of greater or less virulence can be obtained according to what animal is affected—*e.g.*, the disease is not so malignant in the antelope as in cattle. Reference was next made to the tsetse-fly which had interfered with British troops at Bulawayo. There is no harm in the fly itself, but it acts as a carrier of the microbe of horse-sickness. The lecturer emphasised the importance of more thorough bacteriological research in the tropics, since it would greatly advance our knowledge regarding the circumstances of tropical life which may be prejudicial to Europeans living in places to which access had hitherto been denied for pestilential reasons. Dr. Thompson concluded his lecture by showing diagrams of the bacillus of influenza, which is very agile, and has given investigators a hard hunt. In showing a diagram of the tetanus (lockjaw) microbe, Dr. Thompson said that dirty harness or damp leather is an extremely suitable medium for the growth of the tetanus bacillus, as upon this it flourishes more readily than elsewhere.

In the second lecture, given on Wednesday, a more cheerful aspect was opened up, Dr. Thompson showing the beneficial effects exercised by minute organisms. Such organisms are, he explained, absolutely essential to the scheme of nature, and without them life, as we know it, would be impossible. It is the duty of one class of microbes to supply nitrogen or plants. By recent discoveries it would appear that we are now in the position of cultivating this microbe, which, as has been pointed out in this journal, is supplied as

nitragin. The utilisation of bacteria in the purification of sewage was touched upon, and it was pointed out that the action of these minute organisms is necessary for the production of bread made by fermentation, butter, cheese, and other articles of food. Microbes also exist whose office it is to develop pigments, and in many other ways they perform very useful and important services to mankind.

The lectures continue throughout this week (Saturday excepted). The object of the foregoing report is mainly to call the attention of druggists in the city to the fact that the College lectures are free to them. The College is in Gresham Street, E.C., and no formality whatever has to be gone through in entering. A fair number of young men and women attend the lectures, and note-taking is common. Time is given during each lecture to answer questions sent in in writing. It is but fair to the College to say that some of the courses are exceedingly popular, the lecture-theatre often being crammed with City clerks. Apparently they have not yet appreciated the importance of bacterial life.

Bankruptcies and Failures.

Re ALEXANDER WILLIAM CASH, 1A Laurence Pountney Hill, E.C., trading as Cash & Co., Merchant.

The first meeting of the creditors in this case was held at the London Bankruptcy Court last Monday before Mr. G. W. Chapman, Assistant Receiver.

The receiving order was made on December 22 upon the petition of H. H. Warner & Co. (Limited), the act of bankruptcy alleged being non-compliance with the requirements of the usual bankruptcy notice. No accounts have been filed under the proceedings, to which the debtor has not yet surrendered. The following proofs were tendered, viz.:—

	£	s.	d.
Sanitas Co. (Limited)	90	3	6
Guthrie & Valentine	26	2	6
Warner & Co. (Limited)	101	3	11

The Chairman stated that he had no information to give to the meeting regarding the debtor's present whereabouts. A distraint had been levied at 1A Laurence Pountney Hill by the landlord, and the debtor had not been there since. Under those circumstances the Official Receiver would continue to act as trustee, and wind up the case in the ordinary course of bankruptcy. The public examination was appointed for February 3, and if the debtor did not then surrender the Official Receiver would decide what steps could be taken to secure his attendance.

Messrs. Wilson, Bristows & Carpmal represented the petitioning creditors, and stated that the debtor had carried on business as a general merchant and importer, but they were also in the dark as to his present address.

Re WILLIAM HENRY KERR, late of 9 New Bond Street, W., Chemist.

THIS bankrupt attended before Mr. Registrar Brougham at the London Bankruptcy Court, on January 15, for his public examination upon accounts showing total liabilities 1,141*l.* 18*s.* 3*d.*, of which 1,011*l.* 18*s.* 3*d.* are unsecured, and assets nil.

In reply to Mr. G. W. Chapman, Assistant Receiver, he stated that he filed his petition last November to avoid payment of alimony to his wife. He was afraid that proceedings would be taken to enforce payment. No other creditors were pressing him, and as there was a judgment against him in respect of the alimony, and he was unable to meet it, he was advised to seek the protection of the Bankruptcy Court. He commenced business as a chemist in 1885 or 1886 at New Bond Street with 500*l.* capital, lent by a friend. A similar sum was owing to him at the time by his former employers, and he subsequently received between 300*l.* and 400*l.* of that debt. He afterwards borrowed further money for the purposes of the business, the capital altogether introduced being about 1,500*l.* He traded on his own account until 1891, when, being in financial difficulties, he converted the business into a limited liability company, the idea being to issue debentures which he might afterwards redeem and

then regain possession of the business. The trading up to that time had resulted in a gradually-increasing profit; but divorce proceedings were then taken against him, and he, in fact, attributed his failure entirely to his matrimonial troubles. Debentures for 1,100*l.* were issued to creditors as security for their debt, and out of the 1,700 *l.* shares that were allotted witness received 1,693, the remaining 7 being issued to the signatories. He handed all his shares to his solicitor as security for costs. The post of managing-director was given to him at a salary of 300*l.* a year; but as the business suffered from the competition of co-operative chemists' establishments which were opened he subsequently received only 200*l.* a year. The company was in existence for about five years. The business gradually fell off, and the profits dwindled every year, with the result that in March last the company went into voluntary liquidation. The goodwill, stock-in-trade, furniture, and effects were purchased for 250*l.* by Mr. Hancock on witness's behalf; but he (debtor) was not carrying on any business at the present time. The prescription-books, which contained some thousands of prescriptions, now belonged to, and were in the possession of, Mr. Hancock. Witness attributed his failure entirely to falling off in the business in consequence of the divorce proceedings and to law costs.

There was no opposition on the part of creditors, and the examination was ordered to be concluded.

Re MARK ALFRED BANNERMAN, late of 63 Leadenhall Street, E.C., Sponge-merchant, trading as M. Bannerman & Co.

THE first meeting of creditors under this failure was held on January 18 at the London Bankruptcy Court. The debtor commenced business on his own account in January, 1895, under the style of M. Bannerman & Co. with a capital of 150*l.*, given him by his brother-in-law. At the end of March, 1896, owing to ill-health, he closed the business, and sold the stock and books of account for 50*l.* Last year he lost 900*l.* by speculating on the Stock Exchange. His accounts show assets to the extent of 346*l.*, but these include 313*l.* representing 1,252 *l.* shares in the Electric Guest Call Company (Limited). His unsecured liabilities amount to 1,077*l.* 15*s.* 8*d.* In reply to the Chairman's inquiry why he had not realised his shares in the Electric Guest Call Company, the debtor said he had been unable to find the office of that company, and he had valued them at 5*s.* each. The Chairman expressed the opinion that it did not look as if the shares had much value, and as they represented the greater part of the assets there was not much prospect of anything being realised for the benefit of the creditors.

Re FREDERICK MASON, 52 Acre Lane, Brixton, Manufacturer of Meat Essences and Specialities for Invalids.

THE first meeting of creditors under this failure was held last Tuesday, at the London Bankruptcy Court, before Mr. G. W. Chapman, Assistant Receiver. The debtor stated that he commenced business in 1893, with a capital of 1,500*l.* borrowed from his wife. No portion of the money has been repaid. Prior to starting in business for himself, he was employed for twenty-one years as manager to Messrs. Brand & Co., Mayfair. He attributes his failure to the expenses incurred in opening up a new business, including extensive advertising, to the dishonesty of employés, to bad debts, and pressure by creditors, which put him to considerable expenses by way of law costs, and which prevented him from disposing of the business to a company. He still regards the goodwill of the business as of considerable value. A sum of 50*l.* has been lost by the debtor by betting. The Chairman reported that the accounts had not yet been filed; but he was informed that there were unsecured debts, 3,069*l.*; fully secured debts, 800*l.* (the security being valued at 1,290*l.*); and assets, 2,969*l.*, after deducting 132*l.* in respect of the preferential claims. Those assets consisted of cash, 29*l.* 15*s.*; stock-in-trade 804*l.*; fixtures, machinery, &c., 837*l.*; interest under a will, 200*l.*; good book-debts, 708*l.*; doubtful and bad debts, 32*l.*; and the estimated surplus of 490*l.* from the securities in the hands of fully secured creditors. Mr. C. W. Saffell, on behalf of the debtor, asked for an adjournment for fourteen days, to enable negotiations to be carried through by which

some satisfactory scheme might be laid before the creditors. The meeting was adjourned to February 3. The debts are mostly for advertisements.

Re WILLIAM EDMUND SCHOFIELD, Drug and Patent-medicine Dealer, Heywood.

THE public examination of this debtor took place on January 18 at the Bolton Bankruptcy Court, before Mr. A. T. Holden, Registrar. In reply to the Official Receiver, the bankrupt said he was formerly in partnership with Mr. Clegg at 50 Church Street, Heywood. That partnership was dissolved in May, 1892, and debtor removed to York Street. He had lost about 200*l.* in twenty months in the oil business. He was associated in the formation of the company Clegg, Schofield & Co. in September last. The company was registered, but only the seven persons who signed the articles took shares. It had never been wound up, and the cost of registration was still owing to the firm who carried it through. The examination was closed.

Gazette.

PARTNERSHIPS DISSOLVED.

Baird, H. H., and Tatlock, J., dealers in pure chemicals, laboratory furnishings, &c., Cross Street, Hatton Garden, E.C., Glasgow, and Edinburgh, under the style of Baird & Tatlock.

Chancellor, C., and Chancellor, H. G., agents and importers, Clerkenwell Road, E.C., under the style of C. Chancellor & Co.

Owen, G., and Lloyd, O., aerated water manufacturers and ale and stout bottlers, Blaenau Ffestiniog, under the style of Owens & Lloyd.

Smith, J. L., and Johnson, R., tea merchants, Southwark Bridge Road, S.E., under the style of Johnson, Johnson & Co.

Deeds of Arrangement.

Leach, James, 41 Bolton Street, Bury, patent-medicine dealer. Trustee, Frederic Wainley, Bolton, accountant. Dated January 9; filed January 15. Liabilities unsecured, 361*l.* 5*s.* 1*d.*; estimated net assets, 75*l.* The following are scheduled as creditors:—

	£	s.	d.
Edwards, T. B., Bury	20	0	0
Lancashire Private Advance Office, Bury ..	24	0	0
Leach, Martha, Rochdale	25	0	0
Money Club, Bury	26	0	0
Money Club, Rochdale	20	0	0
Rochdale Loan Office, Rochdale	15	0	0
Stevens, —, Bury	160	0	0

Saul, Charles Henry, trading as Charles Henry Saul & Co., 64, George Street, Manchester, and residing at 198 Wilmslow Road, Fallowfield, Manchester, dry-gilder and commission agent. Trustee, Frederick Womersley, 1 Piccadilly, Manchester, chartered accountant. Dated January 14; filed January 18. Liabilities unsecured, 1,179*l.* 4*s.* 7*d.*; estimated net assets, 586*l.* 13*s.* 9*d.* Composition of 10*s.* in the pound, payable by three equal instalments, at two, four, and six months respectively, from January 8, 1897, secured by an assignment. The following are scheduled as creditors:—

	£	s.	d.
Brooke, Charles J., Manchester	55	0	0
Brook, J. Morley, Manchester	54	0	0
Cassella, L. & Co., Manchester	31	0	0
Eter, Meer & Co., Manchester	14	0	0
Froggart, B., Manchester	20	0	0
Hardman, C. R., Manchester	10	0	0
Mason, J., Manchester	22	0	0
McLaren, Charles A., Liverpool	173	0	0
Millward & Co., Manchester	10	0	0
Mucklow & Co., Bury	385	0	0
National Telephone Company, Manchester ..	10	0	0
Riley, W., Castleton	94	0	0
Schroeder & Stangmann, Abergahenstein ..	150	0	0
Teunants & Co., Manchester	18	0	0
Thompson, W. G., Manchester	27	0	0
Walford, A., & Son, Liverpool	22	0	0
Williamson & White, Manchester	25	0	0
Woolaston, E. W., Manchester	18	0	0

Storm, Elliott Baxter, 53 Broad Street, Worcester, chemist. Trustee, Hubert A. Leicester, Worcester, chartered accountant. Dated January 11; filed January 16. Secured creditors, 370*l.*; liabilities unsecured, 1,404*l.* 17*s.* 11*d.*; estimated net assets, 1,330*l.* The following are scheduled as creditors:—

	£	s.	d.
Bankers' claims	535	0	0
Blundell, Spence & Co. (Limited), Hull ..	36	0	0
Fox, F. F., Bristol	25	0	0
Franklin, —, Worcester	25	0	0
Geldhart & Co., Liverpool	32	0	0
Gill, J., Worcester	100	0	0
Hay, William (Limited), Hull	26	0	0
Ireland, A. & Co., Bristol	15	0	0
Langton, Elden & Co., London	44	0	0
Lidland, Son & Baker, London	28	0	0
Lunt, P. & Co., Liverpool	40	0	0
Parkes, James, Worcester	17	0	0
Southall & Co., Worcester	48	0	0

Business Changes.

MR. HERBERT WATTS has purchased the business lately conducted by Mr. G. Dale, Darnall, Sheffield.

MR. F. C. GLENDINNING, chemist and druggist, has purchased the business carried on by Messrs. Walker & Son, at 33 and 35 Granby Street, Liverpool.

MR. J. H. MORRIS, chemist, late of Gravesend, has taken premises at 3 Beaumont Terrace, Branksome, Bournemouth, which he will shortly open as the Branksome Drug Stores and Modern Pharmacy.

MR. WILLIAM MAUNDER, who has carried on the business of the Teignmouth Pharmacy, at 4 Somerset Place, Teignmouth, South Devon, for over thirty years, has retired, and the business in future will be conducted by his son, Mr. J. H. Maunder.

Deaths.

BLANSHARD.—At 2 Eskbank Terrace, Eskbank, N.B., on January 18, Mr. Thomas Blanshard, formerly of Raimés, Blanshard & Co., wholesale druggists, Edinburgh. Mr. Blanshard was born at Kelfield, Yorkshire, in 1820, and went to Scotland when he was 12 to finish his education in Edinburgh. Thenceforward he served his apprenticeship with John & Richard Raimés & Co., Smith's Place, Leith Walk, and in 1839 became one of their travellers, in which capacity he was well known on the road for twenty years, both in the North of England and Scotland. Mr. Blanshard in due course became a junior partner in the firm, whose style was changed to Raimés, Blanshard & Co., with the admission of the late George and Thomas Blanshard. The latter retired from the firm twenty years ago.

GILES.—On January 14, as the result of an accident, Mr. Wm. Giles, manager of the Fuller's Earth Company, Nutfield (Surrey). Deceased whilst trying to stop a runaway horse was knocked down and killed. He had acted as manager of the Fuller's Earth Company at Nutfield for many years and was highly esteemed by his principals and by those under him.

MOUAT.—Mr. Frederick Mouat, M.D., LL.D., a member of the Indian Medical Service, who accomplished great medical and educational reforms in that country, died last week at his residence in Kensington, 87 years of age. Mr. Mouat was educated at Paris, London, and Edinburgh Universities, and, early in the forties, was appointed Deputy-Apothecary and Assistant Opium Examiner to Government. During that time he conducted a series of experiments for the Liverpool Chamber of Commerce on the dyeing lichens, and afterwards he was appointed Professor of Chemistry and Materia Medica, as well as Secretary and Treasurer of the Bengal Medical College. He thoroughly reorganized the college, secured its recognition by the Royal College of Surgeons, procured the addition of a hospital, and translated into Hindustani a standard work on anatomy. Dr. Mouat filled various other offices up to 1870, when he retired from the Indian Service.

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"It does not fall within my province to describe in detail the many new and beautiful processes which MESSRS. FLETCHER, FLETCHER & CO. have perfected. But I shall scarcely be revealing a secret when I say that Messrs. Fletcher have not been slow to take advantage of the possibilities opened up by recent researches on low temperatures."

THE PROSPECTS OF THE SESSION.

THE third session of the Queen's fourteenth Parliament opened on Tuesday last, three weeks earlier than the customary time. The early meeting may be accepted as a proof of zeal for work, but the most sanguine among us have long ceased to anticipate from legislative labours any amelioration of pharmaceutical grievances which at one time was in

certain quarters so confidently anticipated. Ireland, Africa, Armenia, and Venezuela are sure enough of attention, but we notice that her Majesty herself has only a moderate anticipation of what can be done towards the improvement of commercial conditions in this country. Bills with respect to bills of sale, the registration of land, for revising the Acts with respect to the formation and administration of limited companies, and for sundry other purposes, have been prepared, and will be laid before the Houses of Parliament "if opportunity for considering them should be found;" an ominous though, perhaps, a judicious condition.

It is noted in the Queen's Speech that the Government are to renew the attempt to deal with the vexed problems of Employer's Liability. The intention is "to make better provision for the compensation of workpeople who suffer from accidents in the course of their employment." The Bill to be submitted will no doubt be printed in a few days. The Trades Union Congress through their Parliamentary Committee are presenting a Bill of their own of which Mr. Burt has been requested to take charge. This in most respects resembles the Bill with which Mr. Asquith was identified last year.

No mention was to be expected in the Queen's Speech of such minor matters as the scheduling of carbolic acid, the earlier closing of shops, or the Amendment of the Sale of Food and Drugs Act. With regard to the latter, however, Mr. Kearley, the tea-merchant M.P. for Devonport, immediately after the reading of the Speech from the Throne, tabled a notice of amendment to the Address, expressing regret that no measure was announced to give effect to the report of the Select Committee on Food and Drugs, "notwithstanding the fact that the report discloses the existence of nefarious competition with native food-producers by foreigners and others, to the great detriment both of the commercial and agricultural interests of the United Kingdom." Up to the time of writing, Mr. Kearley has not had the opportunity of bringing his amendment forward, but it will not be from want of vigilance on his part if he does not secure it.

It is also stated that the Early Closing Association and Traders' Parliamentary Alliance have agreed that the Shops (Early Closing) Bill shall be reintroduced in the House of Commons this Session in the form in which it passed the Grand Committee last year. It is not certain whether it will be in the charge of Sir John Lubbock again, though its chances will be greatly diminished if any change of pilot should now be adopted.

THE ADVERTISER'S INVASION.

MR. H. J. PALMER, editor of the *Yorkshire Post*, contributes to the January number of the *Nineteenth Century* an article on "The March of the Advertiser" in which he aims to alarm good people in regard to the future of the Press. According to Mr. Palmer a revolution is in progress. The advertiser is getting more and more control of the newspapers of this country. The leading morning journals in London and the provinces are now willing to sell their space in double-column widths, and even the *Times* "is ready, subject to certain conditions, to clothe advertisements in type which three years ago would have been considered fit only for the street hoardings; while even that once intolerable monstrosity the picture block is now cheerfully accepted by journals of the highest standing to emphasise a full-page advertisement." But this is not all, nor is it by any means the worst part of the indictment. We doubt, indeed, whether the double-column advertisement or the picture block has sent a "cold shiver" down anybody's back except Mr. Palmer's. The

truth is the ordinary newspaper reader has not such a reverence for the Press as Mr. Palmer credits him with. He wants to get a good penn'orth or ha'porth as the case may be, and he has little sympathy with the high-class editor's tall ideas as to the dignity of his position. But having scored his honourable victory, says Mr. Palmer, the advertiser is disposed to carry his encroachments further. He is getting to look on the newspaper as nothing more than an advertising-machine, and the modern advertising-agent comes to the paper with an advertisement "which must not appear among other advertisements, but must be indistinguishable from ordinary news." For such insertion he is prepared to pay at a special rate. This temptation Mr. Palmer describes as "subtle and deadly," and he reckons that for every newspaper manager who says "No" to the alluring proposals, there will be half a dozen to say "Yes." We respectfully protest against the employment of the adjectives "subtle" and "alluring" as applied to such gross and stupid attempts at corruption as that which this writer indicates. We are of course aware that such proposals are made, and we are equally aware of the fact that advertisers and advertising-agents are by no means unreasonably averse to a little more publicity than that for which they actually pay. But we are not aware that this is an entirely new characteristic, nor, in our opinion—based on an acquaintance with men whose aggregate expenditure on newspaper advertising would amount to a great many hundreds of thousands of pounds sterling yearly—is it true to insinuate, as Mr. Palmer undoubtedly does, that this class, as a class, is seeking to corrupt an innocent virgin Press. Not one in fifty of those men would condescend to ask for, nor would many of them accept, a favour which it would be dishonourable for any newspaper to grant.

In a letter to the National Society for Checking the Abuses of Public Advertising, which was read at a recent meeting, Sir E. J. Poynter, the recently-elected President of the Royal Academy, remarked that "a world entirely free from advertisements is a dream too enchanting to be realised." Whether the P.R.A. intended to be jocular, or was serious in this ejaculation, we have no means of knowing. He may be one of those dreamers of dreams who are looking forward to the day when competition shall be altogether displaced by co-operation, and when the daily avocations for each one of us shall be settled by that omnipotent entity, the State. If Sir E. J. Poynter is a Socialist of this character, his desire for the annihilation of advertisements is intelligible; if not, his apophthegm was merely a smart saying which does not cover much sense.

TECHNICAL EDUCATION.

At the invitation of certain German authorities, Sir Philip Magnus, Mr. G. R. Redgrave, Mr. Swire Smith, and Mr. Wm. Woodall, M.P., have recently visited the most important industrial centres in Southern Germany. They looked over many factories, but their principal attention was given to the investigation of the state of technical education, and the result of their inquiries is embodied in a letter to the Duke of Devonshire, Lord President of the Council, which has just been issued as a Parliamentary Paper.

The principal interest of the Report lies in the fact that its writers visited the same industrial centres in 1882 as members of the Royal Commission on Technical Instruction, and were therefore able to judge, from personal observation, what progress Southern Germany has made in these fourteen years, and how her advance compares with that of Britain. The comparison is unpleasant enough—for ourselves. In this country we have spent our time chiefly in appointing

any number of "Commissions to Inquire," in Germany they have built technical colleges by the dozen out of Imperial and commercial funds unstintingly granted. As a nation, we have turned out huge waste-paper mounds of Bluebooks, Germany thousands of trained chemists and craftsmen.

The result is obvious. Twenty-five years ago Germany imported mainly ready-made goods from us. Fifteen years ago she took British machinery instead; then she contented herself with half-manufactured goods; and now she sends her surplus of ready-made fabrics, and even her machinery, all over the world. That, of course, is a broad way of putting it, but it represents the general trend of things. The authors of the letter to "My Lord Duke" try to disguise the bitter truth of their statements by sundry sweet excipients. Child-labour has practically disappeared from German factories, wages and the standard of living are rising, working-hours are being cut down everywhere. Our "fine insular position," our "splendid race of workers," must always count for much, a prosperous Germany means an increasingly prosperous Britain—and so forth. But through all these pleasant common-places we can trace the uneasiness of the authors. There is something uncanny in the precision with which, in Germany, discipline is made to aid education and commerce. It is the embodiment of the old German proverb, "Without haste, without rest." It may not be an ideal system in the end. M. Paul Valéry, the able French writer who maintains, in this month's *Cosmopolis*, that Germany has been victorious in war and commerce just because her system breeds mediocrity and suppresses genius, does not make out a bad case at all. But whether good or evil in its ultimate results, the outcome, so far as the present generation is concerned, is that in Germany we have an industrial competitor such as we have never had to meet before.

The German technical schools which "awakened our envy in 1882," to use the words of the writers of the letter, are already being rebuilt and replaced by larger and more serviceable edifices. Nuremberg is building a new industrial art school, at a cost of 45,000*l.*; the same city is spending 50,000*l.* upon the enlargement of its "Gewerbe Museum," by the addition of a section for chemical technology. In the laboratories of this museum gratuitous instruction is given to students who wish to conduct experiments in the application of chemistry to trade-purposes. Stuttgart opened a museum on the model of South Kensington in May last, at a cost of 200,000*l.*, and has added two new buildings—one for chemistry, the other for electro-technology—to her technical high school. This technical high school is now second only to that of Darmstadt (a city of only 57,000 inhabitants), which possesses, perhaps, the best equipped college of the kind in Germany. In Crefeld—a city which lives by the silk and plush industries—a weaving and dyeing school has been founded which is the finest in Europe. And so on from town to busy town.

"It is worthy of remark"—thus the authors conclude their report on technical schools—

that the same object which called into existence, some forty or fifty years ago, the technical high schools has recently led to their development in a new direction. As far back as that period Germany began to prepare herself for becoming a manufacturing people. It was her belief in the future applications of chemistry to industrial purposes that led to the erection and equipment at a great cost of chemical laboratories, and to the encouragement held out to students to pursue their studies in those laboratories for a period of five, six, or even seven years. The success that has attended the efforts of the Germans to appropriate many important branches of chemical-manufacturing industry is well known, and the dependence of those industries on the researches of chemical experts employed in the works is generally recognised.

Her brilliant achievements in the field of chemical industries have encouraged Germany to establish well-equipped electrical laboratories and to develop the practical teaching of physics, with the view of assisting the electrical trades, which are comparatively of recent growth. Twelve years ago we had to report that facilities for practical laboratory instruction in electrical technology scarcely existed in Germany, or were of the most meagre kind. At that time, nowhere in Germany was to be found so well-equipped a laboratory for electrical engineers as at the Finsbury Technical College. Now there are no laboratories in England which can compare in the detail and completeness of their equipment with those we visited at Darmstadt and Stuttgart; and no facilities exist in our own country for original and independent research in physical subjects to be compared with those afforded at the Imperial Physical Institute at Charlottenburg.

From technical schools the Reporters pass to secondary education and to commercial schools. Here (as everyone who knows the two countries is aware) the outdistancing of England by Germany is more painful still. We have no space to enter into this part of the Report, but we may place on record that at Chemnitz Mr. Monaghan, the American Consul—than whom no foreigner knows the district better, and who showed the visitors round—"had no hesitation in saying that if the United States and Britain did not meet Germany more thoroughly and more practically in the school, each would, in the course of a few years, be compelled to yield to Germany the first place in all the higher and more profitable fields of manufacture and commerce."

There is no time for dawdling. As the Reporters say, Germany is not yet satisfied with her achievements; the great system moves onward without cessation.

Everything is still being developed. In all branches of industry there are signs of great activity. New factories are being erected, and new processes are being invented. Indeed, there are indications that in the immediate future our British countrymen will have to encounter a competition far more acute than anything they have yet had to grapple with.

The result is seen in such industrial giant-works as the Badische Anilin-und-Sodafabrik at Ludwigshafen, near Mannheim, perhaps the largest colour-works in the world. That factory started upon its career in 1865, with 30 work-people. In 1870 it had 835 hands, in 1888 2,377, and this year the wage-list contains the names of 4,800 work-people, besides 230 clerks and 30 engineers, while a hundred trained chemists are busy in the firm's laboratories. The works occupy 210 acres; they consume 190,000 tons of coal a year, and there are 83 boilers and 190 steam-engines, with a total of 6,500 h.p. They consume in their manufacturing processes 12,000 tons of artificial ice annually. This, and all the chemicals required in the manufacture, such as soda, chlorine, nitric, hydrochloric, and sulphuric acids, &c., are made on the spot. Is it to be wondered at that, of 5,000,000*l.* worth of coal-tar colours used in the world every year, Germany produces nearly 4,000,000*l.* worth?

"WITHOUT DOUBT."

Our contemporary the *Scalpel* says: "The Pharmacopœia we are at present in the enjoyment of may not be absolutely faultless, but *without doubt* next year will see one as nearly perfect as unstinted labour and exhaustive erudition can make it." The words in italics are the *Scalpel's*, and they are probably not serious, for the same are used liberally throughout the article. We do not take the *Scalpel's* statement too seriously, because we happen to know that some of the workers on the Pharmacopœia revision are in despair regarding what will be left of their work before they are done. It seems, in fact, that the revision is a trifle over-committed for unanimity of opinion or expedition of publication.

FOR THIS RELIEF, MUCH THANKS.

The *Medical Times*, referring to Dr. Rentoul's recent article on prescribing chemists and "the well-executed portrait" of the author in *THE CHEMIST AND DRUGGIST*, says: "As chemists are beyond the reach of the General Medical Council, except through the Legislature, they may rest assured that their position will not be materially affected in consequence of recent changes in the General Medical Council."

TRUST NOT THE "PRINCESS."

Another specimen of journalistic prescribing has been sent to us. It is to be found in the *Princess* of January 2 in an article on Influenza. The following is the mixture recommended to be taken when the symptoms manifest themselves "Lin. ammon. ant. 1 oz., sp. æther. ret. 2 drachms, syr. aurant. 2 drachm. ay camph. ad 6 oz.; a tablespoonful every two hours." This, says the *Princess*, "should be taken until the temperature has been reduced to normal," which will not be long, if the mixture is made up as prescribed.

THE PILL-MILL.

Six years ago we took an estimate from our readers, based on their own sales, and multiplied by all other sources of supply throughout the United Kingdom, of the quantity of pills swallowed in Great Britain and Ireland. Our estimate came out at 5,643,961 daily. Lately we notice our friends on the *Star* have made a calculation in regard to the same problem on a different basis altogether. The "twinkler's" way of reckoning is as follows:—

It may be estimated that the proprietors of patent pills pay 10,000% per week in advertisements. Taken on an average the shilling box contains some 45 pills. This means that 9,000,000 pills must be taken every week merely to pay the advertising account. To pay for the cost of the pills themselves, the maintenance of the establishments, and the profits, it may be safely said 11,000,000 pills are swallowed, making the weekly consumption into 20,000,000 pills. Add to this another 20,000,000 pills for those dispensed and made by doctors and chemists, and we have 40,000,000 pills as the week's consumption, or 250 cwt. That is to say, each person—man, woman, or child—takes a pill every week.

We congratulate the *Star* man on getting so near to accuracy on such untrustworthy data.

FRESH DRUGS.

The *Standard*, in commenting on the discussion between struggling tradesmen and thrifty customers which has recently been published in its columns, interjects the following sentence:—

It is no fault of the country chemist if the drugs, which may have lingered in his bottles for months, are not always of the freshest; but then, one cannot blame the customer if he prefers a pharmacy where the shelves are emptied and refilled more rapidly.

A remark like that published in a newspaper of such large circulation as the *Standard* is sure to do very serious injury to a large number of conscientious pharmacists. It conveys the impression that the inferiority of the drugs at the country chemists' shops is an admitted fact. Such a charge ought not to be made except on the most abundant evidence, for it must inevitably prejudice the country chemist seriously in the opinion of many persons. It is not likely that the writer of the article had any evidence at all. We have none either, nor do we wish to make comparisons between store drugs and those kept by qualified pharmacists. But we think it is only just to state as a fact of common knowledge among us that a large number of the latter are at least as fastidious as the stores in regard to the absolute freshness and purity of their drugs. We hope the editor of the *Standard* will see that it is a mere matter of justice to take note of this view.

Personalities.

MR. MAURICE COOMER has been appointed Assistant Dispenser to the Bristol Royal Infirmary, succeeding Mr. Bennett, of Oakill, who is going into business.

At a meeting of the United Mariners Lodge of Freemasons No. 30, held at the Guildhall Tavern on January 19, Brother Charles Smith (well known in connection with the wholesale drug-trade) was installed Worshipful Master for the ensuing year.

WE notice among the announcements of the *People's Friend* the promise of a series of "American Stories" by Mr. Walter MacEwan, who has on several occasions contributed humorous sketches to *THE CHEMIST AND DRUGGIST*. Mr. MacEwan is a pharmacist, and has charge of Messrs. May, Roberts & Co.'s laboratory.

MR. R. DRANE, chemist and druggist, Queen Street, Cardiff, is signalling his election as president of the Naturalists' Society in a novel manner. He is inviting parties of twelve to his residence for conversations (illustrated with objects) on "The Romance of Collecting;" "The Development of Religious Myth" (for gentlemen only); "The History of the English Tablespoon from the 14th to the 19th Century;" "The Manners, Customs, and Fashions of the English People in Times Past;" and "Old Worcester China."

Trade Notes.

MR. W. H. HOBBS, formerly with Messrs. J. Jackson & Co., Philpot Lane, E.C., has commenced business as an essential-oil distiller and dealer at 9 and 10 Railway Approach, London Bridge, S.E., and Dunster House, E.C.

MESSRS. ALLEN & HANBURY (LIMITED) have taken a large mill at Ware, Hertfordshire, which they are adapting for the purposes of their manufacturing business. The *Herts Guardian* anticipates that the new industry will give employment to about 200 hands.

THE proprietors of Allcock's Porous Plasters announce that they are now advertising the retail price of these articles at 7½d., and they are providing an agreement to restrict the wholesale rates for them to a minimum. The retail prices of the larger sizes are also reduced.

MR. C. CHANCELLOR, senior partner in the firm of C. Chancellor & Co. has retired, and the business will henceforth be conducted by Mr. H. G. Chancellor solely. The firm have recently taken the agency for Bromley's Herb Extract, and are now introducing a new Chancellor soap.

DR. J. C. THRESH's manual of "Water Analysis" is published at 2s. 6d., not 2s. as stated last week. Messrs. Burroughs, Wellcome & Co. inform us regarding the suggestion which we made that soloids might be used for B.P. and other volumetric methods, that they have been working at this idea for some time, and soon will have soloids of that kind ready.

MR. E. MARSHALL, of Henfield, Sussex, and Mr. John D. Marshall, of 5 Pinlicko Road, S.W., have amalgamated their businesses, and have formed both concerns into a limited liability company under the style of Marshalls (Limited). They have taken premises at 27 Red Lion Square, W.C., and are adding to the house there a large factory for the manufacture of fly reels, as well as the goods which Mr. J. D. Marshall has introduced to the trade.

MESSRS. BURROUGHS, WELLCOME & Co. have lately added to their long series of medicaments trional and tetronal tabloids and eucaine-hydrochloride soloids. Trional and tetronal have been introduced as substitutes for sulphonal, their advocates claiming that their action is much prompter. Eucaine is a local anæsthetic with properties similar to cocaine, but without its toxic character. It is now under trial as a substitute for cocaine in nasal, laryngeal, urethral, dental, and ophthalmic surgery.

Legal Reports.

MINERAL-WATER BOTTLES.

AT the Pontypridd Police Court last week John Griffiths who formerly carried on business at Ferndale as an aerated-water manufacturer, was charged under the Merchandise Marks Act with applying false trade-marks to aerated-water bottles belonging to other makers. It was explained that defendant had only been in the business about four months, and that he had recently filed his petition. The Bench thought that he had not been in business long enough to know the custom respecting the bottles, and they would only fine him 10s. in respect of each of three summonses.

SALE OF FOOD AND DRUGS ACT.

ARSENICAL SOAP.

AT Richmond Petty Sessions on Monday, before his Worship the Mayor and other justices, the adjourned hearing of the summonses against Mr. J. W. Taplin, of 3 Station Parade, Kew Gardens, chemist and druggist, for having sold arsenical soap not of the nature and substance demanded was heard.

Mr. J. H. Gould appeared to prosecute, and Mr. A. Hutton, barrister, appeared to defend.

As the case stood, it had been given in evidence that an assistant to Inspector Houghton, one of the Surrey County Inspectors under the Food and Drugs Act, purchased for 6d. at defendant's shop a tablet of "Dr. Mackenzie's Arsenical Soap." It was not divided, the inspector's offer being rejected, and was sent in its original state to Dr. Stevenson, the analyst, who certified as follows:—"I am of opinion the sample contains soap free from arsenic 100 per cent." Dr. Stevenson, in proving his analysis, said that the wrapper in which the soap was sold contained the words "There is no soap which has so marvellous effect upon the skin and preventing the growth of superfluous hair," but this could not be done with arsenic. The drug was of no use for the skin. The defence set up was that this article was not a drug, but the Bench overruled the point, and the defendant then claimed the adjournment, in order that the moiety of the tablet, reserved by the analyst, might be tested by the Somerset House authorities.

The Clerk of the Court stated he had received the following letter from Somerset House:—

Government Laboratory,
Somerset House, London.

SIR.—The sample of arsenical soap referred to in your letter of December 17, 1896, marked A. 227, was duly received, securely sealed. From the contention of the prosecution and the defence, it is evident that arsenic, if present at all, must be there in a very minute quantity, and in view of the very small sample sent, a series of experiments has been made on soap mixed with arsenic as sodium arsenate, to discover the most trustworthy method of its detection in small samples. After a careful investigation, we find that the sample referred to, which weighs only 293 grs., would be quite insufficient to enable us to determine with certainty whether it contains arsenic, if, as is alleged, the amount does not exceed one hundredth of a grain of arsenious oxide to the pound.

I am, Sir, your obedient servant,
R. BANNISTER.

Mr. Hutton said that upon that, and upon the finding of the Bench on the last occasion that arsenical-soap was a drug, he did not propose contesting their ruling any further upon the analyses. They had exercised a right they had under the Act to have an independent analysis, and, of course, they must abide by it. Although it was a chemist who sold actually, and was summoned, he was there in consequence of instructions from Mr. Harvey, the manufacturer. He (Mr. Harvey), soon after one or two of these prosecutions had taken place, had a careful analysis made of the soap, and it appeared in that particular batch there was, by some reason, little or no arsenic. Although he had evidence that arsenic was given out by Mr. Harvey, for the purpose of being put into the soap, he knew the Bench would rule against him, so he would not tender such testimony. The manufacturer had, however, done all in his power to comply with the law. He had caused advertisements to be issued desiring all chemists to return to him their stock of Dr. Mackenzie's arsenical soap, in exchange for some made

under a new formula, and promising to indemnify from prosecution any one who complied with his request. He also promised to give a warranty with the new packets. He at once recalled the soap that was out, and he (the learned advocate) was desired to lay these facts before the Bench. He asked that a light penalty might be imposed on the defendant, as they had endeavoured to comply with the ruling of the Bench.

Mr. Gould intimated that he did not press for a heavy penalty, for the prosecution did not suppose that the defendant sold the soap otherwise than as he received it from the manufacturers, who, they had reason to believe, in future would put arsenic into arsenical-soap in substance.

After a private deliberation, his Worship said that when the Bench came to the conclusion that arsenical soap was a drug they did so upon the ground that it contained arsenic. Since it had been proved that it did not contain arsenic it ceased to be a drug, therefore they dismissed the summonses, upon the ground that it was under the wrong Act. The summonses should have been taken under the Merchandise Marks Act.

Mr. Gould asked that the decision might stand adjourned until the decision of an appeal pending on the same head.

The Bench refused to accede to the request, but intimated they would state a case.

Inspector Houghton asked for summonses against other chemists, who had sold similar soap certified to contain no arsenic, but the Bench intimated that it would be better to wait the result of the appeal.

TINCTURE OF RHUBARB.

HENRY SEARLE, grocer, of Pirbright, was summoned at the Guildford Police Court, on January 14, for selling tincture of rhubarb which was not of the quality demanded by the purchaser. The defendant had sold a drug which was certified to be deficient in saffron and proof-spirit, which by the British Pharmacopoeia standard were essential ingredients. For the defence it was said that the drug was generally preferred by purchasers compounded as sold, as being more palatable, and that it was sold as purchased from the wholesale-house. Defendant was fined 10s.

PARAFFIN WAX AND MACAROONS.

Two cases in which sweetmeats were adulterated with paraffin wax were dealt with at Coventry on January 14. In one case the sale of macaroons containing $4\frac{1}{2}$ per cent. of paraffin wax cost the vendor 2s. 6d. fine, 11s. 6d. costs, and 10s. 6d. analyst's fee. In the second case a woman who sold chocolate chumps containing paraffin wax, which, it was explained, was used to prevent them sticking together, was ordered to pay the costs, 6s. only.

CHALK IN SUGAR.

AT Birmingham, on Tuesday, William Brace summoned Messrs. Lipton, the well-known provision merchants, for selling sugar adulterated with carbonate of lime. On December 18 Brace purchased 8 lb. of sugar. It was used in tea, but it was said it would not dissolve, and a sediment was left at the bottom of the tea-cup. Dr. Bostock Hill, City Analyst, stated that the sugar contained 25 per cent. of carbonate of lime in crystals, the angles of which were extremely sharp. The defence was that the sugar was bought abroad, and was not touched by the sellers. It was a first quality, and was bought at the best market prices. It was through no fault on the part of Messrs. Lipton that the case arose. The Magistrates said they felt that the responsibility rested with the seller, and imposed a fine of 5l. and costs. Notice of appeal was given.

COUNTY COURT CASES.

MARRIED WOMEN'S LIABILITIES.

AT Devizes County Court on January 15, before Judge Gardiner, Mr. T. G. O'Reilly, draper, of Devizes, sued Mrs. Mary Ann Pratt, of 17 Albert Square, Clapham Road, London, wife of Mr. Henry Duke Pratt, until lately a chemist at Pewsey, for 43l. 6s., balance of an account for goods supplied. Mrs. Pratt was sued in respect of her separate estate under the

Married Women's Property Act. The defence filed set out that defendant's husband was abroad, and she was unaware of his address, that she did not admit ordering the goods or their delivery, and that if the goods were supplied they were not supplied to her credit. Mr. O'Reilly conducted his own case, and Mrs. Pratt was represented by Mr. White. After some discussion with the Judge, Mr. White was understood to admit that the goods were received either by Mrs. Pratt or her daughter, though in a legal sense they were "supplied" to the husband. The plaintiff said Mrs. Pratt opened an account with him in December 1892, when she stated that she had means of her own, and anything which was not paid for by her husband would be settled by her. The bills were sent in to Mr. Pratt at defendant's request, and several accounts had been paid with cheques signed by Mr. Pratt; but payment had also been made by Mrs. Pratt in cash, and plaintiff would show that such money had been drawn by her out of the Savings Bank. In cross-examination, he admitted that he had no written guarantee from Mrs. Pratt. His Honour said unfortunately the law required such a guarantee to be in writing, and he must enter a non-suit. He advised plaintiff to have it before trusting a married woman again, who relied upon the Married Women's Property Act. It was very disgraceful for married women to shelter themselves as they did. Mr. White said this was not a case where Mrs. Pratt was unduly availing herself of her privileges. No attempt was made to get the money from her until her husband became bankrupt. The Judge said he could not withdraw his remarks. He refused to allow costs.

A BOTTLE CLAIM.

In the Lord Mayor's Court, on January 14, the Continental Bottle Company sought to enforce a judgment of 5*l.* against Mr. E. B. Law, hop-bitters manufacturer. The defendant did not appear, but as evidence of means it was stated that he carried on business at 110 Cheapside, and at Bow Lane, E.C., under the style of E. B. Law & Co. He was doing a good business, and had promised a cheque before the hearing of the summons, but the cheque had not arrived. The Assistant-Judge (Mr. Roxburgh) made an order for the payment of 2*l.* 10*s.* in one month, and the balance in two months.

AN UNREGISTERED DENTIST SUES.

A KINGSBRIDGE lady had her teeth attended to by a firm of dentists trading as Wandsworth, Fowler & Co. at Plymouth. She did not pay, so the dentist and debtor figured in the County Court on Monday last, 2*l.* 2*s.* being the sum at issue. The defendant's solicitor asked Mr. Fowler whether he was registered or not. He replied that he had been through a full dental curriculum but was not registered as a dentist. Judge Edge thereupon said that a man may be fully qualified in every respect in his profession, hold any number of diplomas, and be thoroughly competent, but if he is not registered as a dentist he can not recover payment for dental work.

CLAIM AGAINST A CHEMIST AND DENTIST.

At the Ipswich County Court, on January 20, before Judge Eardley Wilmot and a jury, Herbert Day, blacksmith, sued Thomas Miller, chemist and dentist, Norwich Road, to recover 15*l.* damages alleged to have been sustained by defendant's son's negligence in extracting a tooth. Mr. Marshall appeared for plaintiff, and Mr. Leighton for defendant.

Mr. Marshall said plaintiff went to defendant to have a tooth extracted. Mr. Miller, jun., performed the operation, and in doing so punctured the tongue so severely that plaintiff was laid up for a fortnight, and thereby incurred great expense. The law implied that an undertaking by professional men of the defendant's class should be performed with reasonable care and skill, and if it was not and injury resulted they were liable for damages sustained.

The plaintiff in his evidence said that during the operation he felt pain, and told the son that he had cut his tongue in pieces. It was bleeding profusely. Mr. Miller put some powder on the tongue, and plaintiff left. The bleeding, however, did not stop, and plaintiff returned in two hours,

when Mr. Miller applied more powder. The bleeding still continued, and plaintiff went to Dr. Vincent, who dressed the wound, an operation that took three-quarters of an hour. Plaintiff went home to bed, but the bleeding again commencing he had to send for the doctor. He had to be attended by the doctor for a fortnight. He could not talk, and when he commenced to do so a week afterwards the tongue burst. He could only take broth and brandy during the fortnight, and had to employ a man at 16*s.* a week to do his work for a fortnight. He also incurred other expenses. On December 11 he went to defendant and asked him what he was going to do. He replied that he could not help such little accidents as that.

Cross-examined: He did not struggle during the extraction of the tooth. The injury was done by the instrument that took out the tooth. After using the instrument defendant employed a penknife to cut out the tooth.

Dr. Vincent believed that the penknife, when used to prise the tooth out, slipped and shot through the tongue. A penknife was not a proper instrument to use in such an operation. A proper tooth-lancet should have been used.

Mr. Leighton, in defence, said he did not dispute that plaintiff had paid the amounts for work done. Plaintiff, when the tooth was being extracted, struggled considerably. Defendant denied he had used any other instrument than the forceps. He had ten years' experience, and in this case performed the operation with ordinary skill and care.

Edward Frederick Miller, defendant's son, said he had considerable difficulty in keeping plaintiff quiet in the chair. He saw his tongue bleeding and applied powder to stop it. When plaintiff came again in the evening he considered the injury only a superficial scratch. Witness had never had any complaint made to him of this kind before.

The Foreman asked whether it was possible for the forceps to have inflicted the wound? Dr. Vincent replied in the negative.

The jury found that the wound was the result of a pure accident, and that reasonable professional skill was used in the extraction of the tooth.

His Honour: That is a verdict for the defendant.

RENDELL'S SUPPOSITORIES.

ON Thursday Mr. Justice Kekewich had before him the Chancery action of Mr. John Pullen, of Clerkenwell, v. Barclay & Sons (Limited), of Farringdon Road, London, which was set down for trial without pleadings. On its being called, Mr. Renshaw, Q.C., said it was an action against a wholesale firm to restrain them from passing off certain goods of which plaintiff claimed the sole disposition, known as Rendell's suppositories. Mr. Warrington, Q.C., interposing, said he might save time by mentioning that the firm against whom these proceedings were taken were wholesale chemists, to whom the sale of these goods was absolutely unimportant. Shortly after the commencement of the action the defendants went into liquidation, and there had since been a reconstruction of the company. In April they approached the plaintiff and offered what he now repeated—to give an undertaking in the terms of the notice of motion, the defendant company in liquidation to pay the costs of the action down to the date of that letter and the necessary costs of the motion for the purpose of obtaining such undertaking as an undertaking to the Court, but no further order as to costs on either side. Plaintiff, however, refused this approach, and said he was entitled to an injunction, but, considering that he had offered such costs as were reasonably necessary for obtaining an undertaking as in the court, he submitted that the defendants had done all that could be asked of them. Mr. Renshaw said he did not read the defendants' offer in that light. But, the learned Judge saying he thought it a reasonable means of disposing of the case, the learned counsel conferred with his client, and in the result agreed to the terms offered, and the case went off accordingly.

NOT ON OUR MAP.—We have just served a rather intelligent-looking customer who wanted "a bottle of malt-extract—the kind that is prepared in Vacuo, South America."—Smith Brothers, Garforth, Leeds.

New Companies and Company News.

SURGICAL HOSIERY COMPANY (LIMITED).—Capital 10,000*l.*, in 1*l.* shares. Objects: To acquire the business carried on at Dakeyne Street, Sneinton, Nottingham, formerly under the style or firm of "J. Wilson & Son," and latterly as "The Surgical Hosiery Company." Registered office, Dakeyne Street, Sneinton, Nottingham.

EXCURSION WASHER COMPANY (LIMITED).—Capital 10,000*l.*, in 5*l.* shares. Objects: To carry on at Bradford, Yorks, and elsewhere the business of soap manufacturers, merchants and factors, and manufacturers of and dealers in chemical, medicinal and toilet articles of all kinds. James G. Canham is to be the Managing Director for five years. Registered office, 31 Adolphus Street, Bradford.

JOSEPH BENTLEY (LIMITED).—Capital 6,000*l.*, in 10*l.* shares. Objects: To acquire the business of a chemical manufacturer carried on by Joseph Bentley, at Barrow-on-Humber, and to manufacture, sell, and deal in chemical manure, oil, varnish, paint, colours, and horticultural and agricultural preparations. The first directors (to number not fewer than two) are the vendor and John E. Mason.

ENGLISH PURE MEDICINE COMPANY (LIMITED).—Capital 5,000*l.*, in 1*l.* shares. Objects: To carry on the business of chemists, druggists, drysalts, perfumers, surgical and scientific apparatus manufacturers, photographic material dealers, and aerated water manufacturers. None of the subscribers are connected with the trade. The regulations of table "A" mainly apply. Registered office, 298 Winchester House, Old Broad Street, E.C.

CROWN CORK COMPANY (LIMITED).—Capital 200,000*l.*, in 1*l.* shares. (of which 100,000 are preference). Objects: To acquire and take over as a going concern the business of the Crown Cork Syndicate (Limited), and certain British and foreign rights relating to the Crown Cork system of bottle-stoppering, and to carry on the business of bottle and bottle-stopper makers, bottlers, cork growers, manufacturers, dealers and importers, mechanical and chemical engineers, &c.

BOWMAN & COMPANY (LIMITED).—Capital 20,000*l.*, in 10*l.* shares. Objects: To enter into an agreement with Robert Bowman, manufacturing chemist, of 10 Osborn Road, Blackpool, for the acquisition of certain rights to a process for the manufacture of certain bichromates, and to carry on at Widnes and elsewhere the business of manufacturers of, and dealers in, chemicals and chemical substances. The first directors are Robert Bowman, John G. Forster, Thomas Maddison and John D. Wardale.

COMPRESSED GAS COMPANY (LIMITED).—Capital 25,000*l.*, in 1*l.* shares. Objects: To enter into an agreement with Benjamin T. L. Thomson, engineer, of 85 North Side, Clapham Common, S.W., for the acquisition of all British patent rights granted to him for the manufacture of carbonic acid gas, and to carry on the business of manufacturers of, and dealers in, carbonic acid gas, and all chemicals used in connection therewith; manufacturing chemists and engineers. Among the subscribers appears the name of William R. Hoare, of 16 St. Luke's Road, Bayswater, W., chemist.

DAISY (LIMITED).—Capital 10,000*l.* in 5*l.* shares. Objects: To manufacture, import, produce, buy, sell, and deal in all kinds of medicines, herbs, pharmaceutical, chemical and surgical materials and appliances, patent and proprietary articles, toilet requisites, &c., and to carry on the general business of chemists, druggists and opticians. The first subscribers are John Wormald, Leeds, solicitor; William H. Hall, Handsworth, traveller; John R. Ellis, Armley, manufacturing chemist; Thomas Pearson, Leeds, gentleman (1 share); William Dillon, Armley, Leeds, traveller; Phineas W. Lee, Farnley, near Leeds, dyer; Walter C. Atkinson, Leeds, chartered accountant. John R. Ellis is the governing director and chairman. Registered office, Faraday Works, Holbeck Lane, Leeds.

MARSHALLS (LIMITED).—Capital 25,000*l.*, in 1*l.* shares. Objects: To acquire from Eli Marshall the benefit of certain

inventions relating to fly-catchers; to take over the business of a chemist and druggist, carried on by John D. Marshall, at 5 Pimlico Road, London, S.W.; to adopt an agreement with the said two vendors, and to carry on the business of fly-catcher manufacturers, wholesale druggists, chemists, drysalts, oil and colourmen, &c. The first subscribers (each with one share) are:—Eli Marshall, Henfield, Sussex, chemist; John D. Marshall, 5 Pimlico Road, S.W., chemist; Alfred Manners, 76 Cannon Street, E.C., chemists' valuer and accountant; J. H. Eastwood, 4 Tressillian Road, Brockley, S.E., chartered accountant; George A. Goddon, 179 Westminster Bridge Road, S.E., chemist; Richard White, 7 New Inn, Strand, W.C., solicitor; Henry Smallman, 70 Finsbury Pavement, E.C., auctioneer. The first directors are to be nominated by the subscribers. Qualification, 200*l.* Remuneration, 1*l.* 1*s.* each per Board meeting attended.

CASTELL & BROWN (LIMITED).—Shares in this firm are offered to chemists by advertisement in this issue.

Trade-Marks Applied for.

(From the "Trade Marks Journal," January 13, 1897.)

Sketch of mule-team drawing waggon across prairie, on oblong black-bordered label, with wording; for borax and boric acid in Class 1; toilet and bath compositions in Class 48. By the Pacific Borax and Ridwood's Chemical Works (Limited), Belvedere Wharf, 13 Bankside, London, S.E. 197,747-49.

"ZITTELINE"; for poultry, horse, and cattle medicines. By Ashfield Brothers, 161 King's Road, Reading, agricultural chemists. 199,135.

"FLYING DUTCHMAN"; "MONSOON"; for chemical substances in Class 2; perfumery, toilet articles, &c., in Class 48. By W. Yarwood, Mersey Chambers, Park, Stockport. 199,488-9, 199,491-2.

"KOSIE"; for a cough-mixture for man. By H. G. Boston & Co., Dixon's Lane, Piccadilly, York, manufacturing chemists. 199,733.

"MANDREL"; for perfumery, toilet articles, perfumed soap &c. By Bird's Soap Company (Limited), East Moors Cardiff. 199,382.

"PRIMA DONNA"; for perfumery, toilet articles, perfumed soap, &c. By Gerard Brothers, Soap Works, New Basford, Nottingham, soap manufacturers. 199,745.

"DYNASTIC"; "ELECTOR"; for perfumery, toilet articles, perfumed soap, &c. By E. Cook & Co., 10 Mark Lane, London, E.C., manufacturers. 200,458.

(From the "Trade Marks Journal," January 20, 1897.)

"BALQUALINE"; for chemical substances used for deodorisers and vermin-destroyers. By J. H. Lees, trading as The Balqualine Disinfectant Company, 20 Newtown Street, Leicester. 198,362.

Facsimile of applicant's signature on plain label with wording "Cognet's Iron Dragées, &c."; for a chemical substance prepared for use in medicine and pharmacy. By Achille Cognet, 43 Rue de Saintonge, Paris, chemist. 198,602-3. Essential particulars, facsimile of applicant's signature.

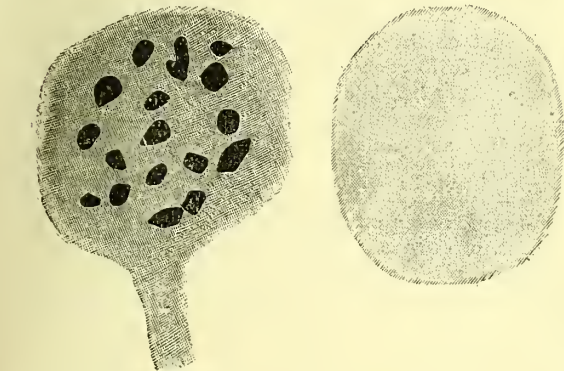
Facsimile of applicant's signature; for mineral and aerated waters, including ginger-beer. By A. J. Freeland, Kibworth, Beauchamp, Leicestershire, pharmaceutical chemist. 199,042.

Figure of parrot in suspended ring holding watch; for perfumery, toilet-articles, soap, &c. By Louis Steinberg & Co., 7 Hall Street, Manchester, merchants. 198,543.

"FIRE"; for perfumery, being scented soap, dental-powders, hair-washes, pomatums, &c. By Joseph Crean, 17 Lower Leeson Street, Dublin, soap manufacturer. 199,527.

Produce Notes.

A GERMAN chemist, Dr. Wolff, has hit upon the idea of employing the Röntgen rays to detect metallic impurities in musk-pods. We give below the picture of a pod of Tonquin musk (No. 1) heavily adulterated with bits of lead, and another (No. 2) of a pod free from metallic adulteration, as figured by Dr. Wolff in the *Pharmaceutische Centralhalle*. The doctor suggests that but for the fact that the musk-caddies of commerce, "as originally imported into London through the English factory in Canton" (*sic!*), always have



No. 1.

No. 2.

a leaden inside-lining to protect them from damp, the contents of a whole caddy might be subjected to the rays at the same time, as the exposure would at once show all the pods that were adulterated with metallic substances. We respectfully convey Dr. Wolff's suggestion to the London Dock Company for application at its musk-warehouse, instead of the present time-honoured method of probing each pod with a needle to feel for impurities. The disadvantage of Dr. Wolff's method is that only metallic adulterations can be detected by it. Paper, blood-clots, &c., would not be shown. No complete Röntgen apparatus is necessary. A shadowgraph on the fluorescent screen is sufficient to show the adulteration, and an accumulator charged every fortnight or so would supply electricity. There are several firms advertising in this journal who would be glad to supply the complete outfit required for from 15*l.* to 20*l.*, and the certainty of the method would, we think, make its adoption profitable. We wish it to be understood, however, that we harbour no illusions that any nineteenth-century invention could possibly find favour with the Dock Company. If they ever adopt Röntgenography it will be to ascertain if the screw of their charges can be driven yet a little further into the coffin of London trade.

The area under arrowroot in Queensland planted for the last four years was:—1892, 222 acres; 1893, 192 acres; 1894,

282 acres; and 1895, 194 acres; and the production in the years mentioned was as follows:—**Queensland Arrowroot.**—576,738 lbs. 448,737 lbs. 534,687 lbs., and 346,853 lbs. The demand in Queensland is naturally very small, and the trade with England is hampered on account of the fact that the purple variety of arrowroot (*Canna edulis*) is the one chiefly grown, and that the product of this may not be sold in the United Kingdom under the term "arrowroot," in consequence of the construction put upon the Adulteration of Foods Act, although it is as wholesome and probably as nutritious as the white variety (*Maranta arundinacea*). The only reason for the preference given by Queensland farmers to the purple arrowroot over the white is that the bulbs or roots spread near the surface of the ground and are easily harvested, whilst the white strikes deep into the ground and can only be dug with considerable labour. The white tubers are very big, weighing sometimes as much as 3 cwt. each. Of the 346,308 lbs. of arrowroot exported last year, only 560 lbs. went to the United Kingdom, the balance to other parts of Australasia.

A new salt district has recently been opened on Walney Island, Barrow-in-Furness. This step marks a further development in the progress of the recently established industry in the north. Great activity is being shown at the south end of Walney Isle where the works of the Barrow Salt Company (Limited) are being erected, and it is expected that the concern will be able to put salt on the market in March or April. A scheme has practically been agreed upon for establishing, adjoining the salt company's works, alkali and other chemical factories for the production of chemicals of a marketable character. The bed of salt covers many square miles, and is of great thickness, and very shortly five chimneys will be erected in connection with the evaporating pans.

The annual Colonial Government report from the Seychelles, which has just been published, states that next to coconut-oil, vanilla is now the most important product of the islands, and in a good year the crop gives a return of about 400,000*r.* Unfortunately, vanilla is a most capricious plant, and, whereas there may be a good crop for two consecutive years, three, or even four, years may also pass without any crop at all. The flowering of the vanilla during the end of 1895 gave a good promise for the crop of 1896, and the expectations then formed are being realised. The crop now being gathered will, it is estimated, reach 30,000 lbs., and the prices for vanilla this year are exceptionally high.

The extensive cinchona-plantations belonging to the Government of India in British Sikkim and Bhutan continue to flourish. The annual report which has been submitted to the Bengal Government by Dr. George King, the Superintendent, shows a total of 3,807,701 plants in cultivation. The issue of quinine in 1895-96 was 10,287 lbs., and of the unbleached "quinetum," which presents the total alkaloids of the bark, 3,830 lbs. Of the increase of 2,725 lbs. of quinine on the quantity issued the previous year, 1,145 lbs. are attributed to the greatly-augmented demand for the now extremely popular 5-gr. packets which are made up in the gaols, and distributed at every post-office in Bengal at 1 pie, (something under $\frac{1}{4}$ d. each), while 937 lbs. were consumed in the Chitral Expedition. The profits on the year's operations amounted to 4,598*r.* (270*l.*), a sum which, admittedly, would form but a small dividend on the capital which has been sunk in these plantations since they were begun thirty-four years ago. There has not been for many years, however, any capital to pay interest upon, as the cost of the plantations was extinguished long ago by profits made in the early years of the manufacture of the cinchona febrifuge. The Government have announced that they are quite satisfied as long as the concern pays its way, and that they only wish to provide, without loss to themselves, a cheap and reliable remedy for fever. Dr. King thinks that the consumption of quinine in India is bound to increase rapidly; and that not many years will elapse before the resources of the Nilgiri plantation will be strained to the utmost to meet the demand, as those of the Sikkim plantation already are.

The looked-for increased demand for Californian honey during the past season has not come about, and 1896 has been very like its predecessor in respect to the commercial position of the article. Some very fine parcels of Californian honey, however, have been received, and for fines white fairly good prices were obtained. From advices to hand the production of choice white Californian in 1896 was very small indeed—in fact, taken as a whole, the Californian honey-crop of this year may be said to have been a failure. In the central portion of the State a fair crop of light amber-colour was raised, but in the southern portion, and along the coast, where the largest apiaries are situated, the crop did not amount to 15 per cent. of last year's yield, many apiaries not making enough to feed their own bees. There was scarcely any rain in southern California, and the weather in April and the beginning of May was so cold that the bees consumed more than they gathered.

Trade Reports.

42 CANNON STREET, E.C., January 21.

BUSINESS in the Mincing Lane drug department has been quiet this week. The heavy chemical trade remains fairly brisk, but in fine chemicals as well as in drysalteries and spices (with the exception of Zanzibar cloves) there is very little life. The Bank rate was reduced to-day from 4 to 3½ per cent. In fine chemicals there are practically no changes. Quinine is very quiet, and refined camphor has undergone no alteration, but news from Hamburg leads us to expect a somewhat firmer market. Tartaric acid is tending firmer. Citric acid quiet; cream of tartar easier. The price of vanillin has been reduced, and the article is now cheaper than it has ever been known. Heliotropin and coumarin are tending the same way. In heavy chemicals we have to report advances in the price of yellow prussiate of potash and prussiate of soda. Sulphate of copper is also very firm, and the same applies to arsenic. Cyanide of potassium is again somewhat easier. Sulphate of ammonia is lower. Nitrate of soda has advanced. Carbolic acid shows no alteration, and benzol is quiet. The drug-market has not shown much animation since our last report. Business is said to have been done in Soudan sorts of acacia gum at lower prices. Asafoetida has become quiet. Star-anise offers at lower rates for arrival. Tragacanth steady. Cape aloes sold to-day at an advance of about 2s.; ordinary Socotrine, however, was easier. For araroba a considerable reduction on the last nominal price was accepted. Buchu-leaves are tending higher. Copaiba-balsam steady, at 2s. 5d. for Maranh. Peru and tolu show no change. Croton-seed still realises extreme prices, while colocynth is easier. Cascarella also sold at lower rates. A fair business is reported in Belgian chamomiles. Crude camphor has been very neglected, but reports from Hamburg indicate a large business there. Cardamoms showed little change this week, although in some cases prices were 1d. to 2d. per lb. below the last auctions. Cubebs are slightly firmer. Dragons' blood steady. Gentian root realised high prices. Menthol easier. Essential oils generally unchanged, but with a rather easier tendency. Opium steady. Camphor is very firm. Calumba remains scarce, and castor oil is quoted higher. Better prices are also asked for ergot of rye. Honey sold fairly well. Gamboge is firm, but cod-liver oil is decidedly lower. Musk is still firmly held, but no business was done at auctions. Benzoin rather irregular for Sumatra, common kinds being cheaper. Ipecacuanha sold at a decline of about 2d. per lb. for Brazilian. Kola-nuts went cheaply. Myrrh remains low in price. Rhubarb was in demand, and realised a general advance of about a 1d. per lb. Senna unaltered. Genuine Jamaica sarsaparilla is scarce, and Lima root somewhat firmer. Vanilla sold irregular, ordinary grades being firm, and dearer. There is a good demand at steady prices for beeswax. In spices we have to report a strong market for Zanzibar cloves, in which considerable business has been done. Nutmegs are easier. Chillies also lower. Cassia lignea firmly held. Mace is flat. Pimento slightly dearer. Ginger shows no alteration. Pepper steady. In drysalteries we have to report an easier market for shellac. Turmeric is firmly held, but without much demand. Gambier shows a strong market. Persian galls firmly held, Chinese quiet, and a trifle easier. Linseed oil is slightly firmer on the spot. Rape oil unaltered both for crude and refined. Cotton-seed oil shows no material alteration, neither

do coconut nor palm oils. Turpentine has advanced somewhat, but closes rather easier. Petroleum is again lower, American from 4½ to 6½, Russian from 4½ to 4½ per gallon.

Our Hamburg correspondent telegraphs on Thursday afternoon that there is a decided improvement in the price of *Camphor*. Considerable business is said to have been done, and refined bells are quoted to-day on the spot at 265m. per 100 kilos., and for forward delivery at 252.5m. per 100 kilos. *Cassia lignea* is also much firmer.

Our Amsterdam correspondent telegraphs on Thursday evening that at the Java cinchona-auctions held to-day 5,378 packages sold at an average unit of 2½c. per half-kilo., which is a decline of ½c. on the prices obtained at the December auctions. The English and American manufacturers bought the equivalent of 7,438 kilos, the Auerbach factory 4,589; Brunswick 2,971, Mannheim and Amsterdam 2,245, Frankfurt-on-Maine and Stuttgart 2,954, and various buyers 7,173 kilos. of quinine. The prices paid ranged from 5c. to 24½c. (equal to 1d. to 4½d.) per lb. for *Manufacturing* bark; and from 4¾c. to 61c. (equal to 15d. to 11d.) per lb. for *Druggists' bark*.

Our Smyrna correspondent telegraphed on Wednesday afternoon:—"Agents for American houses have again come into the market and bought 100 cases of fair current *Manufacturing* opium at advancing prices, commencing at the parity of 8s. 7d., and closing at 8s. 10d. per lb., f.o.b." The first of these figures shows a decline of 2d., the last an advance of 1d. per lb. on the closing rates of last year. A message from our correspondent, dated Thursday morning, states that the American agents have bought 200 more cases of opium at the parity of 8s. 7d. to 8s. 10d. per lb., f.o.b., for fair *Manufacturing*.

Our New York correspondent telegraphs on Thursday afternoon that *Balsam copaiba* has advanced to 50c. per lb. for fair quality. *Lobelia herb* is now quoted at 10c. per lb. in bags. *Blood-root* may still be had at 18c. per lb.; and for *Golden-seal* root 25c. per lb. is asked, which shows a higher value. On the other hand, *Podophyllin-root* is more freely offered at lower prices; 11c. per lb. will buy fair quality. *Beeswax* is held for 26 to 28c. per lb. for genuine American bleached, and is offering freely at these prices. *Vanilla* has advanced to 25c. per lb. for good *Mexican*. There has been a decline in the price of *Cocaine hydrochlorate* to 25c. per oz.

ACACIA.—A fair amount of business has been transacted recently in *Soudan* sorts, but holders have accepted decidedly lower prices. It is difficult, however, to get precise quotations. *Persian* "insoluble" gum continues in request—fine picked at 20s. to 23s., ordinary to good sorts at 12s. 6d. to 16s. per cwt. At auction to-day this drug was very poorly represented. Two cases fair *Trieste* picked gum sold at 6l. 12s. 6d., and five casks white *Mogadore* were bought in at 80s. per cwt. A quantity of good pale *Soudan* sorts from Suez was bought in at 90s. per cwt.

ACID (CITRIC) quiet at 1s. 1d. per lb.

ACID (TARTARIC) maintains its firm position. *English* B.P. does not offer below 1s. 1d. per lb. from the makers, and for *Foreign* brands on the spot the price is 1s. per lb. At auction to-day 44 bags *Cape argot* (strength not stated) sold at from 53s. 6d. to 56s. 6d. per cwt. for good white, and from 40s. to 50s. for partly dusty to good pinky.

ALOES.—The *Cape* variety, of which there have been no imports lately, is in rather small supply, and sold readily at to-day's auctions, at an advance of 1s. 6d. to 2s. per cwt., 67 packages realising 21s. 6d. for good bright hard, 20s. to 21s. for medium slightly drossy, and from 18s. down to 13s. 6d. for rather ordinary drossy quality. A lot of common stony brought 5s. per cwt. *Curaçao* aloes dull of sale. Of a parcel of 105 boxes, 40 sold at from 10s. to 13s. per cwt. for ordinary dark; a bid of 14s. is to be submitted for medium capey, and for common pickings and pieces 7s. per cwt. was accepted. There were several very nice lots, but they found no buyers. Of *Socotrine* aloes 10 packages were shown; 6 cases hard blackish in skins sold without reserve at from 27s. to 34s. per cwt.; 10 cases ordinary dark to good brown hard *Zanzibar*, in skins, were bought in. For part of the parcel, bids ranging from 45s. to 70s. are to be submitted; the best lot was bought in at 100s. per cwt.

AMBERGRIS.—At to-day's auction 3½ oz. of whitish ambergris, rather fair flavour, sold at 52s.; dull ditto at 39s.; and 6½ oz. of black undeveloped at from 29s. to 34s. per oz. This is the first time for several months that ambergris has been sold at auction.

ANTIMONY.—The price of good crude *Japanese* antimony is 19l. per ton; a bid of 18l. was refused at auction.

ARABOA.—Nine cases medium grey to dark araroba shown at auction to-day sold readily at the low figure of 2s. per lb.

ARECA.—Firmly held. A parcel of 50 bags wormy nuts from Colombo was bought in at 16s. per cwt.; no one could be found to bid 15s. for it.

ARSENIC remains very scarce, at 24s. 6d. to 25s. per cwt. for best white powder, landed terms. There was an arrival of 50 casks from Melbourne, per *Gulf of Genoa*, this week.

ASAFOETIDA.—No further business is reported this week. The quotations remain steady, at from 40s. to 75s. per cwt., according to quality. The principal importers declare that they know of no further consignments on the way, and they suggest that the interruption to business caused by the plague in Bombay may have the effect of driving up this, as well as most other articles for which that port is a trading-centre. At auction 5 cases from Bombay were shown, and all bought in at from 52s. to 60s. per cwt.

BALSAMS.—At auction to-day 3 casks of good to thick yellow *Maranham copaiba* were shown; 2s. 5d. per lb. is asked for them, and that seems to be the price, our quotation of last week being apparently meant by our informant for balsam in Hamburg, not in London. Three cases *Peru* balsam were bought in at the nominal price of 7s. 6d. per lb., and 11 cases fine soft gemine *Tolu* in small tins were bought in at 2s. 9d. per lb., the price being 2s. 6d.

BENZOIN.—An arrival of about 30 cases *Sumatra* gum said to be the finest quality that has been seen in London for a long time, is shortly expected. It is thought that it will realise fully 10l. per cwt. At auction to-day there was a good supply of *Sumatra* gum amounting to 240 cases. A considerable proportion of this was offered without reserve. One hundred and thirty-five cases sold at very irregular rates, some of the better lots realising an advance of about 5s. per cwt., while medium grade, offered without reserve, sold in most instances extremely cheaply. The following prices were paid:—Fair seconds, pale almondy centres, false-packed corners, 7l. 17s. 6d.; medium seconds, fair small to bold almonds, brown borders, 6l. 5s. to 6l. 7s. 6d.; rather better ditto, 6l. 12s. 6d. to 6l. 17s. 6d.; ordinary seconds, few almonds, very false-packed (without reserve), 5l. 7s. 6d.; dull woody and false-packed seconds, with few almonds, from 77s. 6d. (in some instances rising to 85s.) down to 62s. 6d. Of *Palembang* 105 bags were offered, of which 20 sold subject to approval, at from 25s. to 26s. 6d. per cwt. for fair quality. *Penang* gum sold readily, at a decline of from 5s. to 10s., from 60s. up to 72s. 6d. being paid for medium to fine glassy gum. Of *Siam* benzoin 31 packages were offered, of which 10 found buyers. For small to medium partly blocky, but mostly loose yellow almonds, a bid of 11l. 10s. was refused. Yellow to grey siftings, in hard block, clean, brought 6l. 10s.; dull-small pea and bean size to grey siftings in block, 5l. 5s. per cwt.

BUCHU.—No sales were effected at to-day's auction.

Fifteen bales round green leaves had been catalogued, but they were said to have been sold privately. It is said that privately more business has been doing, and higher prices are asked—3¼d. to 4d. per lb. for good to fine green round leaves.

CAFFEINE.—In a memorial recently presented to the Tariff Committee of the American House of Representatives in favour of an increase in the caffeine-duty, the signatories say:—"The cost of labour is \$1.50 per day in the United States, against 45c. in England and Germany. These higher wages are equal to an additional cost of \$1.10 per lb. to the American manufacturer. Of the chemicals used in manufacture of caffeine, soda ash and caustic soda are subject to a duty of ½c. per lb., animal charcoal to 25 per cent. duty. Sulphuric acid is duty-free under the present tariff. In case a duty should be placed on sulphuric acid a further increase of the cost-price would result for the American manufacturer. For the chemicals used in the manufacture of caffeine the American manufacturer incurs additional expenses of about 50c. per lb. compared with the foreign manufacturer. Adding all these items, it will be seen that a duty of at least \$2 per lb. is required to place the American manufacturer on the same level with the foreign competitor."

CALUMBA remains rather scarce, especially in fine qualities. At auction to-day several packages were shown and bought in. The limit for fine London washed is said to be 85s. per cwt., and fair sorts were bought in at 35s. per cwt.

CAMPOR (CRUDE).—An entirely neglected market. The quotations for arrival are:—*Formosa*, 90s. per cwt. c.i.f., January to March; *Japan*, 102s. 6d. to 105s. per cwt. c.i.f., same shipment. The exports of crude camphor from Japan in 1896 amounted to 12,950 piculs, against 22,500 in 1895. At the Chinese shipping-ports prices are falling in consequence of the heavy arrivals from Formosa. The shipments from the southern part of that island, which had been suspended for a while, have recommenced lately. We understand that a considerable business was done in Hamburg yesterday, both in crude and refined camphor. After the conclusion of the business prices became considerably firmer.

CANNABIS INDICA.—Firmly held at high prices. For fair green tops 6d. per lb. is asked, but 5d. would probably be accepted. Another lot of 10 bales, however, rather stalky greenish mixed was bought in at 6½d. per lb. This firm position, however, was by no means confirmed at to-day's drug auctions, and 20 bales, fair greenish colour, but almost all dust and stalk, realised no better price than 1½d. per lb.

CANTHARIDES.—There has been somewhat more demand for *Chinese* flies recently; 1s. per lb. now seems to be the bottom price. Fair *Russian* are quoted at 1s. 10½d. to 1s. 11½d. c.i.f.

CARDAMOMS.—The arrivals this week include 30 cases by the *Duke of Buckingham*, 51 by the *Japan*, and 11 by the *Barrister*; total 92 cases—all from Colombo. At to-day's sales there were 96 packages offered, of which 28 sold without much alteration in price. In some few instances rather full rates were paid, but in most cases quotations marked a decline of 1d. to 2d. per lb. on the last auction-rates. *Ceylon-Mysore*; medium to bold pale lean and round mixed realised 3s. 7d. to 3s. 8d.; medium pale ditto, 3s. 5d. to 3s. 7d.; small pale, 3s. 3d.; very small, 2s. 8d.; mixed pale partly split, 2s. 8d. to 2s. 9d.; brown mixed ditto, 2s. 3d. to 2s. 4d. For seed rather higher prices were paid, grey realising 4s. 3d.; brown, 3s. 10d. per lb.

CASCABELLA was represented in sale to-day by 120 packages, of which 53 found buyers at easier prices. Fair brown, partly silvery broken quill, realised 40s. to 44s.; common pale and dusty from 21s. to 26s. 6d. per cwt.

CASSIA FISTULA.—At auction to-day 40 bags slightly wormy but mostly sound, rather lean, pods realised from 13s. 6d. to 14s. per cwt., without reserve.

CHAMOMILES are reported in somewhat improved demand, fair quality of old flowers is said to have been sold at 40s. per cwt. For fine flowers as much as 55s. per cwt. is asked, and it is reported that 60s. has been paid for a specially selected parcel.

CINCHONA.—At auction to-day there was a fair supply of

cultivated flat *Bolivian-Calisaya*, consisting of 35 packages, of which 6 sold at 1s. 4d. per lb. for good hard bright yellow, slightly quilly mixed. The remainder is partly held for the limit of 1s. 5d. per lb., which is rather above the current market value. A bale of fair mossy *Linna* quill sold at 2d. per lb., and some fine *Java Druggists'* bark, in quills about 2 ft. 6 inches long, was bought in at 1s. 8d. per lb. A parcel of 50 serons *South American* bark from Payta, said to be *Lora*, was not landed in time to be offered at the auctions.

CLOVES.—The market opened very dull this week, but on Tuesday and Wednesday an active speculative demand took place, and over 4,000 bales of *Zanzibar* changed hands for delivery, at prices beginning at 2½d., advancing to 2⅔d., and closing at 2⅔d. per lb. To-day there are buyers at the last-named price, but no sellers below 2⅔d. per lb.

COCA-LEAVES.—At auction the most interesting parcel was a 20-lb. sample box of nice green *Ceylon* leaves of good aroma which realised 10d. per lb.

COCAINE has undergone no further change. The present price is the lowest on record.

COLOCYNTH is again easier. Of 12 packages darkish apple shown to-day, 8 sold at 1s. 8d. to 1s. 6d. for fine pale, partly seedy to medium, rather broken peeled apple. A parcel of 9 cases fair *Spanish* was bought in at 10d. per lb.

CREAM OF TARTAR is again lower, and white French *crystals* now offer at 79s. to 80s. per cwt. on the spot, *powder* at 82s. to 83s. per cwt.

CROTON-SEED still remains scarce, and the small parcels occasionally met with are rapidly bought up. At auction to-day 12 bags small to medium, rather fair colour, partly dark mixed, sold at from 80s. to 82s. per cwt. This shows a trifling decline on the last figures.

CUBEBS.—One broker reports that he has sold nearly 20 bags of fair slightly stalky berries privately at 30s. per cwt., which show an advance of about 4s. on the last auction-rates. He has since refused offers ranging from 27s. 6d. to 29s., and is not disposed to give way. At to-day's auction 87 bags were bought in, except one of ordinary small quality somewhat damaged, which sold at 25s. per cwt. Good berries were bought in at 37s. 6d. per cwt. nominally. The exports from Java during the five months from July 1 to November 30 show a considerable decline, the figures being for 1896, 662; 1895, 1,431; 1894, 1,433 piculs.

DRAGON'S-BLOOD.—Fine quality, such as realised 11½s. per cwt. at the last auctions, is inquired for, but for the present there is none in stock. Ordinary grades are neglected. Of 10 cases shown to-day 3 sold at the full price of 6½ 10s. per cwt. for medium to fair bold cake.

ERGOT OF RYE.—Is held for more money privately, bold sifted and dried *Spanish* being now quoted at from 8d. to 10d. per lb., according to holder. Several lots were shown at auction and bought in at these figures, one parcel of wormy quality being bought in at 7½d. per lb. Of 30 bags *Russian* ergot, fair quality, 5 found a buyer at 6½d. per lb., while 5 bags small sound grey ergot from Hamburg were bought in at 7d. per lb.

GAMBOGE.—Slightly dearer. Only 2 cases, offered at auction, to-day sold at 8½ 15s. per cwt. They consisted of unsorted, partly blocky pipe, of fair fracture, partly dark mixed.

GENTIAN-ROOT has been arriving somewhat freely, several consignments, amounting together to about 100 bags, having been received from Havre and Marseilles. At auction high prices were fully maintained, 12 bales somewhat rough *French* root selling readily at 28s. to 28s. 6d. per cwt; 1 lot of 10 bags powder was bought in at 35s., while for another of 5 bales, 28s. per cwt. was the price. Some agents have been offering root this week on the basis of 26s. 9d. per cwt., c.i.f. terms.

GUAIACOL- AND CREOSOTE-CARBONATE have recently been considerably reduced in price. The former, which used to be quoted at 4s. 3d. per oz. (Heyden's brand), is now quoted at 3s. 9d. per oz.; the latter has been lowered from 23s. to 18s. 6d. per lb. Heyden's guaiacol carbonate will in future be offered commercially under the name of Duotal.

GUAIACUM.—There was one case of fine bold hard block of rather dark appearance. This was bought in at 3s. per lb.

HONEY.—*Jamaican* honey sold at steady prices, 23s. 6d. to 24s. per cwt. for thick rather dirty mixed brown and grey colour. Of *Californian*, 95 cases pale and yellow candied honey were bought in at 45s. per cwt., and a lot of 5 packages *Greek* honey from Patras, dark-brown liquid, was bought in without mention of price.

IPECACUANHA.—The *Brazilian* variety was represented to-day by 52 bales, mostly of ordinary quality. One importer would not accept lower rates, and bought in the whole of his supply; the other sold 11 bales at a decline of 1d. to 2d. per lb. Fair sound to more or less damaged root realised from 5s. 4d. to 5s. 6d. per lb. Of *Colombian*, 32 bags were offered, of which 6 found buyers at almost unchanged prices, from 3s. 9d. for mouldy and damaged, to 4s. 1d. for fair plump, slightly damaged. Since the auctions 4s. 2d. per lb. has been paid for good quality.

JALAP seems to be tending somewhat easier; 7d. per lb. is the nominal price for good *Vera Cruz*. At sale 30 bales were offered, of which 5 sold cheaply at from 5d. to 5½d. per lb. for wormy and mouldy damaged quality.

KINO.—It is said that there has been slightly more demand lately for good genuine *Cochin* kino, which is now again quoted at from 10s. to 11s. per lb.

KOLA in considerable supply. Of 84 packages, six good washed *West Indian* realised the high price of 7d. per lb., and of the remainder about 28 bags sold very cheaply at from 5½d. for fair washed, down to 3d. for ordinary damaged *West African*.

LIQUORICE.—In consequence of recent purchases the stock of *Persian* liquorice-root is practically exhausted. For fair decorticated 20s. is asked; for ordinary rough 7s. 6d. per cwt., but these figures are nominal. Powdered root offers at from 27s. 6d. to 35s., f.o.b. Marseilles, for fine decorticated to guaranteed pure ditto.

MENTHOL.—Slow of sale at 7s. 3d. per lb. on the spot. Among our imports this week are 30 cases by the *Atenor* from Yokohama. At auction 16 cases were offered, and all bought in, at from 7s. to 7s. 6d. per lb. The market closes dull.

MUSK.—Said to be in small supply for good qualities, and reported to be changing hands at high prices privately. At auction, as usual, no demand was shown. Of first pile *Tonquin* pods 14 tins were offered and all bought in, fine, small to bold, blue skin with little underskin, well trimmed at 92s. 6d. per oz., 90s. being understood as the price. For a tin of old-fashioned small to bold first pile pods, untrimmed and rather damp, a bid of 57s. per oz. is to be submitted. For two tins, third pile pods, small to bold rather damp blue and brown skin, mixed, 46s. per oz. was suggested as an acceptable price.

MYRRH remains very cheap. Good pale picked was bought in at 3½d. per cwt., and for a parcel of good coarse siftings a bid of 37s. 6d. was refused. Four packages ordinary dust sold, subject to approval, at 10s. 6d. per cwt.

OIL (CASTOR) rather dearer. At auction about 120 cases of *East Indian* oil were bought in at nominal prices. Privately, the quotation for seconds runs from 3½d. to 3¾d. per lb.

OIL (COD-LIVER).—A declining market. Some few sales have been made privately this week at lower prices, but it is almost impossible to obtain precise quotations. Fine non-congealing *Norwegian* oil is certainly not higher than 125s. to 130s. per barrel on the spot. At auction to-day 35 casks were withdrawn or bought in at nominal rates. Ten barrels fair non-freezing *Newfoundland* oil were bought in at 5s. 6d. per gallon.

OILS (ESSENTIAL).—*Citronella* oil is offering at lower prices; 1s. 2d. per lb. would be taken on the spot; for arrival the quotation is 1s. 1½d. per lb., c.i.f. *Cassia* oil neglected. At auction 10 cases from Amsterdam (84 to 87 per cent.) were bought in at 9s. per lb., and for another lot (40 to 45 per cent.) 5s. per lb. is asked. *East Indian rose* oil in plentiful supply, but all bought in at from 2½d. to 4d. per oz. A small parcel of very ordinary quality *Ylang-ylang* from Yokohama, sold

without reserve at the low figure of 11*d.* per oz. *Eucalyptus* oil was as usual in large supply, but no sales were made. *Risdonia* oil from Tasmania was bought in at 1*s.* 6*d.* per lb., a bid of 7*d.* per lb. being rejected. For *Globulus Risdonia*, the limit is said to be 1*s.* 8*d.* per lb., and *Platypus* oil was bought in at 2*s.*; 2 cases *Star-anise* oil were bought in at 7*s.* per lb.; 9 cases *Dementholised Japanese peppermint* oil at 3*s.* 4*d.* per lb., and for 30 cases white *Japanese camphor* oil from Kobe *via* Hamburg, 47*s.* 6*d.* per cwt. is asked. *American peppermint* dull of sale; HIGH, 7*s.* 6*d.* per lb. *Wayne County* of good quality offers at 5*s.* to arrive, and at 5*s.* 6*d.* per lb. net on the spot.

OPIMUM.—*Soft-shipping* varieties are neglected, at from 11*s.* 9*d.* to, nominally, 13*s.* 6*d.* per lb. Some business has been done in *Druggists'* varieties, which are quoted at 8*s.* 9*d.* to 9*s.* 3*d.* for good to fine, and from 8*s.* to 8*s.* 6*d.* for seconds. A small trade is also reported in medium to good quality *Persian* opium. The quotations for this variety range from 9*s.* to 10*s.* for medium to fine, and from 8*s.* 9*d.* down to 6*s.* for ordinary to low.

ORANGE-PEEL still declining in price. Six packages of fair thin-cut Malta peel sold to-day at 4*d.* to 4½*d.* per lb. for good quality.

POTASH SALTS.—The price of yellow *Prussiate* has been advanced, the *Beckton* quotation being now 5½*d.* per lb., while other English manufacturers quote 5½*d.* to 6*d.* per lb. usual terms. *Chlorate* quiet at 4½*d.* to 4¾*d.* per lb. f.o.b. *Cyanide*, 98 per cent., offers [at as] low a price as 10*d.* per lb. *Permanganate* is unaltered.

QUICKSILVER is extremely firm. The importers' price is still unchanged at 6*l.* 12*s.* 6*d.*, but for second-hand supplies as much as 6*l.* 12*s.* per bottle is now asked.

QUININE remains almost a dead letter. Nine pence per oz. is the nominal quotation for second-hand German bulk.

RHUBARB sold to-day at decidedly firmer rates, the average increase being fully 1*d.* per lb. Of 82 cases, 23 were sold at the following prices:—*Shensi*: Small druggists' root, pale coat, half pink, half grey fracture, at 1*s.* 6*d.* per lb.; small to medium round, pale coat, three-fourths dark-grey and one-fourth pink fracture, 1*s.* 2*d.* per lb.; wormy pickings, mixed sizes, round and flat, 10½*d.* per lb. *Canton*: Medium to very bold, fair yellow coat, half pink and half dark fracture, from 1*s.* 6*d.*; round trimming root, fair coat and fracture, 1*s.* 4*d.*; fair round pickings, 1*s.* 1*d.* to 1*s.* per lb.

ST. IGNATIUS BEANS.—Four bags realised 6*d.* per lb. at auction.

SARSAPARILLA.—Genuine grey *Jamaica* root is extremely scarce. None was offered at auction to-day. Eight bales *Lima-Jamaica*, all damaged, sold at an advance of about 1*d.* per lb., namely from 1*s.* 1*d.* to 1*s.* 2*d.* per lb. One bale good red *Native* root was bought in at 1*s.* 6*d.*; and of 11 bales *Honduras* two of ordinary quality sold at 7*d.* per lb. Of *East Indian Smilax* six bales sold without reserve at the low price of ¾*d.* per lb.

SENNA.—The *Tinnecelly* variety was represented by only 152 bales, mostly in secondhand and of ordinary quality. The bulk of this supply sold at unchanged prices, from 1*d.* up to 1½*d.* for common dark, to small and medium, yellowish leaf. Twenty-two bales of ordinary *Alexandrian* leaf sold at from 3*d.* to 4*d.* per lb.

SHELLAC.—Fairly steady, with sales of TN *Orange* on the spot at 74*s.* to 75*s.* per cwt. For arrival quotations are easier with business at 71*s.* 6*d.* c.i.f. for TN *Orange*, f.o.b. April shipment. Sales of A.C. *Garnet* lac, now landing, are reported on the basis of 74*s.* per cwt.

SODA SALTS.—*Prussiate of soda* has been advanced to 3¾*d.* per lb. net for the Beckton brand. A considerable business has been done in *Nitrate of soda* at higher prices. In London the quotations are from 8*l.* 5*s.* to 8*l.* 7*s.* 6*d.* per ton for refined, and from 8*l.* 2*s.* 6*d.* to 8*l.* 5*s.* for ordinary quality.

SPERMACE.—Rather firmly held at 1*s.* 5½*d.* per lb. for *American* refined on the spot.

SPICES.—*Nutmegs* and *Mace* are slow of sale and dull. *Chillie* lower. About 150 bales *Zanzibar* sold at auction, at from 20*s.* per cwt. for common brown up to 27*s.* for medium

red to stalky. Ten cases fine bright *Japan* realised 50*s.* per cwt. Sales of 100 bales *Ceylon cinnamon*, usual assortment, are reported, at 10*d.* per lb., c.i.f., for January-March shipment. *Cochin ginger* dull of sale. At auction only 120 bags found buyers, at unchanged prices; fair to good washed rough at 29*s.* to 30*s.*, and 20 cases sold at from 33*s.* 6*d.* for small to medium, partly cut, very mouldy, up to 71*s.* for bold rough A-cut. *Jamaica ginger* is dull. Several parcels of new crop were offered and bought in; 29 bales old sold without reserve at 65*s.* to 67*s.* per cwt., for ordinary small and lean up to 88*s.*, and 90*s.* per cwt. for good washed, rather small. *Pimento* in demand at higher rates, with sales at from 2½*d.* to 2¾*d.* for ordinary fair. *White pepper* quiet, but firm; *Penang* on the spot at 3¾*d.* for good fair. Fine bold bright to superior white *Singapore* sold at 5½*d.* to 6¾*d.* per lb. *Black pepper* quiet.

STAR ANISE.—The nominal spot quotation for genuine *Chinese* seed is still 100*s.*; for arrival, quotations are easier at 77*s.* per cwt. c.i.f. Five cases genuine *Chinese*, of good aroma but very broken, were bought in at 100*s.* per cwt.

SUGAR OF MILK.—American brands are quoted at from 60*s.* to 70*s.* per cwt., according to quality.

TEA.—The enormous quantity of just upon 40,000 packages of Indian tea was catalogued for last Monday—by far the biggest sale on record. The market, however, was equal to the strain, and although here and there the bidding flagged, prices were remarkably steady on the whole, and fine teas fetched very high prices. On Tuesday, Ceylons were fairly firm, but Ceylon leaf teas under 6*d.* are undoubtedly cheaper than Indians of that grade, and the large quantity of Ceylon to come will undoubtedly tend to prevent Indians for price going much firmer. The country demand is not very brisk, and dealers are complaining of dull trade.

TRAGACANTH.—At the public sales to be held on Friday, January 22, 1,403 packages of tragacanth gum, and 613 packages of *Hog* gum will be offered. A considerable portion of this is to be sold without reserve. Privately, business has been somewhat more active recently, especially for medium and ordinary qualities. Steady prices have been paid, and the quotations close as follows:—*Persian*, fine pale firsts, 14*l.* to 14*l.* 15*s.*; seconds, 12*l.* to 13*l.* 10*s.*; thirds, 10*l.* 10*s.* to 11*l.* 10*s.*; lower grades, at from 8*l.* 10*s.* downwards. *Hog* gum is quite neglected at from 3*s.* to 75*s.* per cwt. nominally. The stock of this kind is heavy.

TURMERIC.—Without much demand, but prices are firm, *Madras* finger being quoted at from 10*s.* 6*d.* up to 13*s.* per cwt. for bold but dull to good bright yellow. Whole bulbs at 8*s.* 6*d.* per cwt. Fair *Bengal* is held for 8*s.* 6*d.*; *Cochin* finger at from 7*s.* to 7*s.* 3*d.* per cwt.

VANILLIN is offering at extremely low prices. The competition in this, as in other artificial scents, has lately become very keen, and the ordinary list-prices can be shaded a good deal. About 10*s.* per lb. has been quoted in some quarters.

WAX (BEES).—In good demand for most varieties. Seven cases guaranteed genuine *French* beeswax, in yellow 5-lb. bars, were bought in at 8*l.* 5*s.* per cwt. A considerable quantity of *Madagascar* was mostly bought in at 6*l.* 5*s.* for good brown and yellow mixed. Thirteen mats sold at 5*l.* 12*s.* 6*d.* for dark wormy mixed. For 12 packages *Australian* there were ready buyers at 6*l.* 10*s.* for good yellow, and from 6*l.* 7*s.* 6*d.* down to 5*l.* 7*s.* 6*d.* for good mixed to ordinary dark quality. Six packages fair red mixed *Jamaican* also sold at 8*l.* 5*s.* per cwt. Eight bags *Rhodesian*, bought in at the last auction, small grey balls, found a much better market this time, 5*l.* 15*s.* per cwt. being paid for the lot. Of *East Indian* wax 19 packages were sold; ordinary yellow, offered "at any advance over 70*s.*" realised 77*s.*; common dark brought 40*s.* per cwt. without reserve, and a lot of dull pale *Bombay* bleached realised 5*l.* 5*s.* For good *Zanzibar* wax 5*l.* 15*s.* to 5*l.* 17*s.* 6*d.* was paid. Genuine bleached *American* is held for 8*l.* per cwt.

WAX (JAPAN).—Dull of sale at 40*s.* per cwt. on the spot. At auction 13 cases were bought in at 45*s.*

Heavy Chemicals.

There is little alteration to report in the general condition of the heavy-chemical market, prices mostly remain un-

changed, but there is an upward tendency in a few minor products. A very fair volume of business is passing, especially on the Clyde, where a better feeling is reported. On the Tyne things are not quite so bright, business being a trifle dull, with the exception of South Durham salt and sulphur. The increased production of bleaching-powder on the Continent is also noted with some anxiety at the latter port. *Bleaching-powder* and *Caustic soda* are in fair demand. *Soda crystals* continue quiet, and *Ammonia alkali* is not moving quite so briskly. *Salteake* is firmer. *Recovered sulphur* keeps scarce and price is firm. *Sulphate of ammonia* easier, with quotations all round about 3s. 9d. per ton lower than those given last week. Exports from Leith last week amounted to 303 tons. *Benzols* are quiet at practically unchanged figure. The demand for *Sulphate of copper* continues, and quotations are higher, Anchor and Liverpool 19l. *Cream of tartar* has declined slightly, and is dull; best white powdered stands at 82s. to 83s., and crystals at 80s. *Nitrate of soda* is dearer—refined, 8s. 4½d.; ordinary, 8s. 1½d. *Sugar of lead*, white and brown, and *Nitrate of lead* quiet. *Hyposulphite of soda* moves steadily at late rates. *Chlorate of potash* dull. White powdered *Arsenic* firm and scarce; nominal quotations have advanced to 24l. 5s. to 24l. 10s. For *Alum* and *Sulphate of alumina* a steady and moderate demand exists, especially for the better qualities. *Green copperas*, both Lancashire and Welsh, continues firm.

The Hamburg Market.

Our Hamburg correspondent writes on January 19:—Business in general has been very quiet with us this week. A large number of ship-labourers and about 3,000 lightermen are still striking, and consequently the loading and discharging of vessels meets with delay. The drug-market is quiet, and prices have changed but little since last week. *Agar-Agar* (*Japanese isinglass*) remains quiet, at 260m. per 100 kilos. *Antimony* is unchanged, at 38m. per 100 kilos. *Balsam copaiba* is steady; genuine Maracaibo is quoted at 3.90m. to 4m. per kilo. *Peru balsam* quiet, at 15½m. to 15m. per kilo. *Tolu* unchanged, at 5m. to 4½m. per kilo. *Cape aloes* unchanged, at 45m. to 46m. per 100 kilos.; while *Curaçao* can be bought at 34m. to 35m. per 100 kilos. *Camphor* (*refined*) meets with more attention; there are large buyers at 240m. per 100 kilos., while holders ask 252½m. per 100 kilos. for spot delivery, and 250m. for April-May. One of the refiners here reduced his quotation last week to 230m. per 100 kilos. for some unknown reason, but refused to book any orders at his reduced quotation. *Cinnamon* is firm, and in good demand for near delivery. *Cassia lignea* is very firm and dearer; new crop is held at 68m. to 69m. per 100 kilos., old crop at 75m. to 76m. per 100 kilos. *Ergot of rye* unchanged at 95m. to 100m. per 100 kilos. *Cumin-seed* (*Malta*) is quoted 45m. per 100 kilos. *Coriander-seed* (*Mogadore*) very quiet at 13m. per 100 kilos. *Anise* (*Russian*) steady at 28m. to 30m. per 100 kilos. *Lycopodium* quiet at 260m. per 100 kilos. for spot delivery, and 255m. for forward delivery. *Quinine* very quiet at 24½m. per kilo. *Cod-liver oil* also very quiet, with little demand; 1896 non-congealing oil is offering at 125m. per barrel. *Castor oil* dull, French oil of first pressing spot is quoted 55m., February shipment at 52m. per 100 kilos. *Peppermint oil* is unchanged: HGH at 7½m., Todd at 7m. per lb., Japan oil at 7m. per kilo. *Star-anise-seed oil* is quiet at 18m. per kilo. *Cassia oil* a little easier, 55-60 per cent. prompt can be bought at 13½m. *Citronella oil* quiet at 2.75m. per kilo. *Spermaceti* is quiet at 320m. to 315m. per 100 kilos. *Spirits of turpentine* a little firmer at 42m. per 100 kilos. *Japan wax* is quiet, new arrivals can be bought at 78½m. per 100 kilos. *Carnauba wax* is unchanged, grey held for 95m. per 100 kilos.

Cod-liver Oil in Norway.

Our Bergen correspondent writes on January 16:—Our market prices are still falling off. The first news from the fishery which has just begun on the outer coast of Lofoten seems to indicate that the fish are rather fat this season. No official news has yet been received. The following are the current quotations for old oils: *Lofoten*, non-congealing, 127s. 6d. to 130s., f.o.b.; *Finnmarken*, non-congealing, 122s. 6d. to 125s., f.o.b. The exports from Bergen up to date this year are 73 barrels against 175 barrels same date last year.

The Liverpool Drug-market.

Our Liverpool correspondent, writing on January 20, says that in gums there has been a little more inquiry for *Soudan sorts*, and a large business has been done in fair medium quality at 65s. per cwt., being previous value. A parcel of Brazilian has arrived, and will shortly be offered, a good many inquiries being in the market for this grade. *African ginger* is inquired for to a slight extent, Sierra Leone is offered at 21s. per cwt., and Monrovia at 16s. to 17s. per cwt. For *Sulphate of copper* 20s. per cwt. is now being asked, but some secondhand parcels might be secured at a shade less. *Castor oil* is in a much better position for the week, and good second Calcutta is now selling at 2¼d. to 3d. per lb.; first-pressure French at the same price; Madras good second 3¼d., and second-pressure French 2½d. per lb., with a strong upward tendency, owing to the news from India. *Beeswax* is in good demand; 19 packages of St. Domingo at auction realised 5l. 15s. to 6l. 2s. 6d. per cwt.; Chilian, 6l. 15s. to 7l. 10s. per cwt.

A Woman Chemist.

WHO IS SHE?

THE women's page of the *Daily Chronicle* last Saturday contained an interview with "a bright-looking woman standing behind the counter of a tiny chemist's shop." Her background was eloquent with phials and lotions (says the scribe), not a speck of dust to be seen anywhere. If anybody could endow a nauseous compound with attractions, or so clothe a pill-box as to make its contents acceptable, it would surely be this pleasant-faced little chemist, who has made a strong and uphill fight for her conviction that woman is distinctly in her element as the proprietor of a pharmacy.

"Given a nice little capital," she said, "I can imagine no field more suitable for a woman's energies than that afforded by a druggist's shop. The life and training are not laborious, and the work gives scope for the well-known accuracy and the dainty touches so natural to women. Like these," and she pointed to phials of perfume tied up with wondrous bows and fancy finishes which might well have figured on a Bond Street bonnet. Her powders, cosmetics, and accessories were as prettily set out as is a garden in spring. "And yet," she sighed, "I can hardly make it pay. It takes such a long time to overcome the prejudice against a woman chemist, you know. Some physicians actually 'boycott' us. A strong argument in favour of women chemists is that it is much more pleasant for a lady to consult a woman on the hundred-and-one little appliances necessary for sick-room and nursery. This is where a woman chemist distinctly scores, for while the ladies of this neighbourhood buy most of their drugs and get their prescriptions at masculine hands, the majority come to me for baby-foods, infant-bottles, and all the requirements of diminutive life. And they come to me, too, for their cosmetics," she added mischievously. "For many a woman hesitates to confide the secret of her 'make-up' to a man. In our business we see many of the shadows of social life. You would be surprised at the number of women who ask for an ether-draught as a 'pick-me-up.' They would be ashamed to go to a restaurant for brandy; but, of course, no one suspects a visit to a chemist. I invariably refuse to give a stimulating draught without a prescription. But it means sending away customers. I could almost rival the receipts of a bar were I to satisfy the demands so often made on me for a little brandy and water for 'faintness and a giddy feeling.'"

Persons who write about "baby-foods" and "infant-bottles" are almost certain to be imaginative, and probably inaccurate; for that reason we make no comment upon the last statement.

A NORWEGIAN CHEMICAL-FACTORY.—The chemical-factory of Boyesen & Kobro at Christiania, which was founded about two and a half years ago, has recently been transferred from its original quarters on Voldgade to large premises on Roedfyldgade.



In writing letters for publication, correspondents should adopt a concise, but not abbreviated, style. They are requested to write on one side of the paper only. Letters, with or without a nom-de-plume, must be authenticated by the name and address of the writer. Queries should be written on separate pieces of paper, and the regulations printed under the sections to which they apply should be strictly observed.

Notice to Correspondents.

The P.A.T.A.

SIR,—For many years past as managing director of the businesses of Wilcox & Co. and Gabriel Jozeau I have been receiving complaints which may be grouped under three heads: (1) From the public who purchase the proprietary articles advertised by us, complaining of the reluctance of the retailer to supply the particular article demanded, and of his persistent endeavours to palm off something else in lieu thereof. These complaints for the most part have reference to demands for Mariani Wine. (2) From wholesale dealers in proprietary medicines complaining of other dealers selling the goods at an invisible profit; and (3) from retail chemists complaining of their inability to obtain a working profit on the sale of our proprietary articles on account of the prices having been "cut" so low as to leave no margin for a "living wage"!

Speaking generally, the demand for this class of goods is created by advertisements. The handling of these goods requires comparatively little skill and entails a minimum of working expenses, but it is evident that distributors should secure a fair margin of profit on their sale, otherwise it cannot be worth their while to sell them.

Hitherto I have taken the view that purchasers of my goods were at liberty to deal with them when bought as thought best, and it always appeared to me to savour of impertinence to dictate, or even suggest, the price at which they should be retailed—beyond, of course, advertising the retail prices at which we ourselves sell the articles in question. Even now I feel strongly that boycotting and contracts restricting the freedom of trade are in many respects open to objection. The conclusion has, however, been forced upon me that this extreme "cutting" must in the long run diminish the value of the proprietary articles in which I am interested. This is so obvious that in self-defence I feel justified, when selling goods, in fixing a minimum sale price in respect of the wholesale and retail dealers, leaving it to them to fix the price above the irreducible minimum at which they will dispose of them. I am well aware of the difficulties which such a course presents in carrying out, and I have therefore placed Mariani Wine and Santal Midy upon the P.A.T.A. list. The minimum prices I have fixed from a public point of view and to the best of my thirty-five years' experience in wholesale and retail.

I may point out, in conclusion, that my advertisements bring customers to chemists, who will not improbably prove to be purchasers for other articles in addition to those advertised. All I ask is that my goods shall be supplied when asked for, and I hope most sincerely that my customers will recognise that it is also to their advantage to conform to the stipulated conditions in respect of the minimum prices.

Yours truly,

83 Mortimer Street, Gt. Portland Street, W., January 16.
J. JOHN SNOOK.

Northern (15/7) attended the P.A.T.A. meeting in Liverpool, and writes to express the opinion, that "if the P.A.T.A. is supported by the rank and file of chemists, it will be the means not only of stemming the cutting tide, but also of uniting chemists together as a body in one common cause."

SIR.—With reference to some remarks made at the opening of the last meeting of the Glasgow and West of Scotland Pharmaceutical Association in regard to an approaching meeting of the P.A.T.A., I am reported to have said: "I was not aware whether it had been so arranged for the purpose

of keeping me quiet or not, but it was possible such a scheme was in their eye."

What I did say was: "No better day could have been arranged for the purpose of keeping me quiet, but it was not possible such a scheme was in their eye."

Your insertion of this will oblige Yours very truly,
W. L. CURRIE.

223 Byres Road, Dowanhill, Glasgow,
January 18.

Prices at Dumfries.

SIR.—Kindly allow me space to correct one or two remarks inadvertently made by Mr. Glyn-Jones at the recent meeting of P.A.T.A. in regard to "No cutting of prices, &c., in Dumfries." For several years Dumfries has had a branch of one of the principal cutting-houses in Glasgow, as well as several grocers, who issue price-lists regularly and stock all the leading patent and proprietary articles, &c., at lowest store prices.

When Mr. Jones stated that we got 1s., or face value, for 1s. 1½d. articles, Mr. Daniel replied that business was not quite in such a happy condition as was pictured, and to meet the store-competition all the chemists have reduced their prices more or less for some years. Where we occupy a fortunate position is in that in all matters regarding the business we meet as an association and act unitedly. We are not so fortunate as to have abundance of elbow-room, for there are twelve chemists' shops in Dumfries for a population of 18,000, and this, I think, is a good deal above the average in most towns.

I am, yours truly,

J. W. SUTHERLAND.

Hon. Secretary Dumfries Chemists' Association.
Dumfries, January 16.

SIR.—Will you allow me to say that I regretted my inability to attend Mr. Glyn-Jones's meeting held here recently, owing to another engagement? I observe that Mr. Jones said upon that occasion that Dumfries chemists get full prices for patents, and that the position of Dumfries is unique. Mr. Jones must have been strangely misinformed. We have in Dumfries a branch of one of the largest cutting firms in Scotland, and they distribute in this town the usual stores price-lists, offering all patents, &c., at rock bottom prices. Some time ago I suggested that all patent medicines be reduced to lowest store prices here, and the suggestion was favourably received. We resolved to let the matter rest, however, for a little, until we saw how the P.A.T.A. succeeded in dealing with this question. In the meantime the prices charged for patents are not very well defined, and I fancy this position is not unique anywhere. I expect, however, that before long we will fall back upon the expedient of unanimously reducing all patents to stores prices. Only one of Mr. Jones's statements in this connection was supported by fact—i.e., that the chemists of Dumfries recognise to the full the value of united, unanimous action upon all trade questions. With regard to ordinary prices, all articles such as glycerine, chemical food, cod oil, infants' foods, meat extracts, perfumes, toilet-articles, sponges, &c., are sold at several places in the town at stores prices, and we have already reduced some of these to that level by common consent. It is hard, therefore, to see how Dumfries, with its twelve chemists, can be an El Dorado of Pharmacy.

Dumfries, January 12.

JAMES REID.

Drug-brokers as Arbitrators.

SIR.—In your last issue in the report of the meeting of the chemical trade section of the London Chamber of Commerce *re* Arbitration Clause, I read that Mr. Domeier stated that the brokers were constantly blundering into untenable assertions. "One recently claimed that custom overrides contract," but he, as it appears from your report, did not state to the meeting the final result of the arbitration he referred to. Had he done so, the subsequent remarks of Mr. Howard and Mr. Tyrer would, in all probability, not have been made, for the result was not "where are you?" but most emphatically "there you are." I acted as arbitrator for Messrs. Domeier & Co. and maintained that they had strictly and fully carried out all the stipulations of the contract by which alone they were bound. The sellers' arbi-

trator, however, argued that the buyer was bound by the custom—said to be at present prevailing at Hamburg—as to goods sold to arrive—viz., that sellers' and buyers' representatives should be present at the weighing and taring, and as we could not agree an umpire was called in, who took the same view of the case as myself, and I decided in Messrs. Domeier & Co.'s favour. Consequently sellers had to accept the official copy of weights as tendered and pay the cost of the arbitration. You will thus see that there are still some brokers left in Mincing Lane who will see that strict justice is done, and who will uphold the clauses and stipulations of our London contracts as against continental innovations.

I remain, Sir, yours obediently,

CHAS. CHRISTEY,

(of the firm of G. N. SOURATTY & Co.)

33 Fenchurch Street, E.C., January 20.

The Shepperley Case.

SIR,—After reading Mr. Shepperley's letters I feel bound, as one who was present at both trials—viz., Apoth. v. Shepperley and v. Wiggin, to testify to the accuracy of both your reports (word perfect). We must excuse all old soldiers in recounting their past battles in getting mixed up.

Being pressed by the crowd against the door of the room where the jury were discussing the case for about half-an-hour, I heard the whole of that very noisy discussion, and I say that Mr. Shepperley had a very narrow escape from an adverse verdict.

Yours truly,

116 Jamaica Road, S.E.,
January 18.

C. W. PRIDMORE.

[We must decline the compliment which Mr. Pridmore offers us. Our reports of the action were lengthy, but they certainly were not verbatim.]

The Russian Cancer-remedy.

SIR,—Your instructive note on the above comes opportunely, when the public press is ringing with reports of the so-called new cancer cure. The cynical advice which was given when Chian turpentine was first boomed as a cure for the same dire disease, would probably be equally applicable in the case of this latest claimant for that honour. That advice was to be quick and use the drug while it was efficacious!

One important advantage possessed bycelandine is that it is so cheap and plentiful that no one need be deterred from experimenting with it by reason of its cost.

As the herb is of considerable antiquarian interest, a few further particulars concerning it may not be out of place.

Celandine derives its name from the Greek *Chelidón*, a swallow. One of its old English names is "swallow-wort;" its French and German popular names also have the same signification, "Herbe à l'Hirondelle" and "Schwalbenkraut." It was thus named because, as Gerard puts it, "some hold opinion (see Pliny's Natural History) that with this herbe dams restore the sight to their young ones when their eyes be out, the which things are vaine and false, for Cornelius Celsus doth witness that when the sight of the eyes of divers young birds be put forth by some outward means, it will after a time be restored of itself, and soonest of all the swallow, whereupon the tale or fable grew how thorow an herbe the dams restore that thing which healeth of itself." Whether this "fable" first suggested the use ofcelandine in diseases of the eye, or whether the legend grew out of the use, is a doubtful point. At any rate the old herbalists were loud in its praises for the purpose. Thus Gerard—"The juice is good to sharpen the sight, for it cleneth and consumeth away slimie things that cleave about the ball of the eye and hinder the sight."

Other names are "tetter-wort" and "wart-wort," indicative of the employment of the plant in cutaneous diseases. "The juice often applied" says Salmon "to warts, corns, tetter, ringworms, or such other like-spreading sores, destroys their acrid ferment, and also cures them." That it should be thought of as a possible cure for cancer is not surprising when we find such a passage as the following, in the last-named author, "It is to good purpose used in old running sores and filthy and corroding ulcers wheresoever, to hinder their malignity and stop their running and fretting and to cause them the more speedily to heal."

But it was as a cure for jaundice thatcelandine seems to have attained its greatest and most permanent renown. According to the mediæval doctrine of "signatures," the bitter yellow juice of the plant, so nearly resembling bile, indicated its suitability for liver-disorders. There is not wanting modern testimony, especially among herbalists and homœopaths, to the accurate finding of the Signaturists in this particular instance. *Chelidonium* is to-day one of the stock remedies among the practitioners of both these schools of medicine. Herbalists employ the drug in infusion or liquid extract, while homœopaths have their "mother tincture."

The only preparation of the drug that was ever "official," seems to be the 1722 Edinburgh Pharmacopœia decoction, referred to in your note, and called *Decoctum ad Ictericos*.

Rad. chelidoni majoris cum foliis.

Curcuma

Rubiae tinctorum, ana unciam unam

Aquæ fontanae, libras tres.

Coque ad libras duas colatura, cui frige facta addic—

Succum millepedum ducentorum

Syrupi quinque radicum [rad. apii, asparagi, fœniculi, petroselinii, ruscii] uncias duas.

It is as well that such a disgusting concoction should be handed down to posterity in the "decent obscurity of a dead language."

Yours truly,

Brighton, January 11.

C. S. ASHTON.

Anti-flea Perfume.

SIR.—Retail chemists are expected to know something about every imaginable subject, and the questions they are asked are legion—some trivial, some easily answered, and sometimes suggesting interesting research. Not unfrequently, however, one is puzzled, and in such cases glad to take advantage of your correspondence columns in which the wider experience of others may be available. Possibly some of your readers may be able to assist in the solution of a difficulty with which the writer was confronted a few days ago. Somewhere between the years 1830 and 1840, large audiences were attracted by the wonderful antics of a troupe of performing fleas—whether those referred to in a recent interesting article in the *Strand Magazine*, I do not know. During a performance, either in Edinburgh or Glasgow, they all suddenly died, whereupon their owner and trainer at once said, in great distress, that he was sure that someone in the room had some perfume (the name of which he mentioned) in his or her possession; on which a lady who was present admitted that she had some of that particular scent on her pocket-handkerchief. To which the professor replied in tones of abject despair, "Then, madam, you have killed all my fleas." A descendant of the same lady, whose life is spent in visiting the homes of the poor in some of the lowest slums in our towns, would only be too thankful to know what the perfume was, so fatal to fleas, and such a boon to bitten humanity, having quite forgotten the name, if she ever heard it.

Can any of your readers help her and

Yours faithfully,

January 12.

F. L. W. (15/62.)

DISPENSING NOTES.

This section is intended for the elucidation of dispensing difficulties. Subscribers and their employes may contribute to it, criticising any of the following notes or contributing notes on prescriptions which they have found to be of unusual interest.

The Quinine Mixture.

Quin. sulphatis	..	..	..	..	gr. xxiv.
Acid. nitric. dil.	..	..	..	..	3iij.
Spt. æth. nit.	..	..	..	..	3iij.
Spt. chlorof.	..	..	..	..	3ij.
Potass. chlor.	..	..	..	..	5ss.
Aq. camph. ad	..	..	..	..	3vj.

—From *C. & D.* January 9.

SIR.—"Quinine Mixture," in to-day's *C. & D.*—On making this I found it turn a pale-yellow colour immediately after

adding the potass. chlor., chlorine being apparently set free. I am, yours faithfully,

Chichester, January 8. W. ADAMSON.

SIR,—I diluted the nitric acid dil. with 2 oz. camphor-water, in which I dissolved quinine. I dissolved the pot. chlor. in 3 oz. more of camphor-water, and with the remaining camphor-water diluted the spt. æth. nit. (which had contained pot. bicarb.). Then I mixed all the above, and the mixture kept water-like for about half a minute, when I added the spt. chlor., and it immediately produced a very slight yellow coloration. Yours truly,

Cheltenham, January 11. JAMES W. HORNSBY.

SIR,—I have dispensed the quinine mixture according to the formula sent you by "Puzzled," and though mixed in the order named I fail to get a "bright-yellow" mixture. My result is quite colourless, clear, and free from odour of chlorine, only the smell of spt. chlorof. and aq. camph. being detected. I should suggest that contamination in manipulation of the ingredients will account for yellow colour. With regard to a reply of yours (252/49, to "Northern"), I do not find inf. rose acid., B.P., become green with the addition of borax. [See "Squire."] Yours, &c.,

Scarborough, January 11. SAMUEL T. GOODALL.

SIR,—Your correspondent "Puzzled" in last week's issue of *C. & D.*, in asking for information with regard to the quinine mixture dispensed by him, says that it immediately changed colour after being dispensed. I tried the same mixture, but not with the same result. I made it on Friday night, and it is now perfectly clear—in fact, as clear as water. I am at a loss to understand why "Puzzled's" mixture changed colour. I first dissolved quin. sulph. in acid. nit. dil., added a little of the aq. camph., then spt. æth. nit. I rubbed pot. chlor. in mortar, with more aq. camph., added that to the dissolved quin. in bottle, put spt. chlorof. in, and filled up with aq. camph. That, as I said before, made a clear mixture. Yours truly,

35 Rusholme Road, Manchester, R. W. WILSON.
January 11.

SIR,—I have tried the quinine-mixture as sent by "Puzzled," and find after a few minutes the mixture changes to a pale straw-yellow. I dissolved the quinine in water and acid. then pot. chlor., and, finally, the spt. æther. nit. and spt. chlorof. I think the spt. æther. nit. is responsible for the change of colour. Yours, &c.,

74 Monkwell Street, E.C. P. B. FALLON.

SIR,—I find, in dispensing the prescription in three different orders—viz. (1) with potass. chlor. added last, (2) with spt. æther. nit. added last, (3) with acid. nit. dil. added last—a slight coloration, such as would be produced by the addition of tr. ferri perchlor. 3j. to water 3vj., only on the addition of the last ingredient in each case, permanent for a week, at least, except in No. 1. The colour in this instance increases with a slight escape of gas. As there is no smell of chlorine or its oxides, and a suspicion of a smell of the oxides of nitrogen, I should suggest there is some complex action between the pot. chlor., acid and spt. æther. nit. which produces the liberation of these gases, which in solution would tend to give a canary-yellow colour. Yours truly,

Maidstone, January 19. A. A. GILLITT.

SIR,—The reaction which takes place in the "quinine mixture" (page 69) is somewhat complicated. In order to produce the colour the quinine, spirit of nitre (or other nitrite), chlorate of potash (or other oxidiser), and an acid must be present, the omission of either of which yields a colourless solution. In the coloured mixture a portion of the chlorate is reduced to chloride, nitrous acid is liberated, and nitric peroxide is sometimes formed, the result varying with the proportions of the ingredients and the order of mixing. If the quinine be added several minutes after all the other ingredients have been mixed, no colour is produced. The reaction is readily obtained by putting a grain or less of quinine in a test-tube with a similar quantity of sodium nitrite, pouring on a little peroxide-of-hydrogen solution, and then dropping in dilute nitric acid. The colour is

probably due to a nitrous compound of quinine produced by the action of nascent nitric oxide. The way not to obtain the reaction is the way the "mixture" should be dispensed—viz., dilute all the ingredients before mixing, adding the quinine last, after an interval of a few minutes.

35 Clifton Road, Maida Vale, W. R. H. PARKER.

SIR,—In order to test the accuracy of "Puzzled's" statement concerning the quinine-mixture of last week's "Dispensing Notes," I made one exactly in the order of the prescription, dissolving the chlorate of potash in the least possible quantity of water, so as to give the ingredients a chance to react upon each other. The result was the same as "Puzzled" observed, a yellow colour being produced at once, deepening on standing.

To get at the cause of the coloration I then made a series of mixtures as follows:—

No. 1.					
Chlorate of potash ..	..	..	..	..	5 gr.
Dilute nitric acid ..	..	..	..	..	30 minims.
Nitrite of sodium ..	..	..	..	..	2 gr.
Water to ..	..	..	..	..	1 oz.
No. 2.					
Chlorate of potash ..	..	..	..	..	5 gr.
Dilute nitric acid ..	..	..	..	..	30 minims.
Quinine sulphate ..	..	..	..	..	4 gr.
Water to ..	..	..	..	..	1 oz.
No. 3.					
Nitrite of sodium ..	..	..	..	..	2 gr.
Dilute nitric acid ..	..	..	..	..	30 minims.
Quinine sulphate ..	..	..	..	..	4 gr.
Water to ..	..	..	..	..	1 oz.
No. 4.					
Nitrite of sodium ..	..	..	..	..	2 gr.
Dilute nitric acid ..	..	..	..	..	30 minims.
Chlorate of potash ..	..	..	..	..	5 gr.
Quinine sulphate ..	..	..	..	..	4 gr.
Water to ..	..	..	..	..	1 oz.

Nitrite of sodium was used instead of spt. ætheris nit., so as to have a fixed quantity of nitrite to work with. In none of these mixtures was a colour developed, except in the last, and in this the colour was persistent and became deeper on heating over a water-bath, showing it was not due to any dissolved oxides of nitrogen. If a layer of liq. ammon. be run over the surface of No. 4 a green coloration will be noticed at the junction of the two liquids, due, in my opinion, to thalleoquin formed by a small amount of chlorine liberated from the chlorate acting on the quinine. To sum up, the yellow coloration is due to the action of the nitrite and chlorate on the quinine.

Yours truly,

Bootle, January 11. HAROLD WYATT, JUN.

SIR,—I have tried "Puzzled's" quinine-mixture, and obtain a colourless mixture, except, of course, quinine-tinted. I diluted the quinine and acid. nitric, before mixing, then added spt. æther. nit. and spt. chlorof., and finally pot. chlor. dissolved in the rest of aq. camph., and corked quickly. I have had it standing now for a week, and the colour remains the same. Has "Puzzled" treated the quinine directly with the acid and spt. æth. nit., and can these have been pure? I cannot see any other reason for the yellow colouring described. Yours truly,

Edinburgh, January 19. W. G. R. (24/45.)

Clear or Cloudy.

SIR,—We have frequently dispensed the following (being particularly careful to use Howards' salt and aq. destill.)—

Sol. pot. tart.	..	..	..	..	3vj.
Aq. destill. ad	..	..	..	..	3vj.
M. Ft. mist.					

—with the result that a faint cloudy colour is present, and after standing some time, customer says, it deposits a trifle, whereas that dispensed in London, W., keeps perfectly bright any length of time. Can you give us any light upon the matter?

Faithfully yours,

SALISBURY. (16/35.)

Mangan. Binox. Pills.

Manganes. binoxid.	gr. i.
Kaolin.	..	..	..	..	gr. ij.
Ft. pill. secund. artum. Argent.					

What is the best excipient for above pill? We used ung. kaolin, and no kaolin-powder at all. It made a 3-gr. pill, and we experienced difficulty in silvering them.

C. B. (12/59.)

[There is no necessity for using grease in massing binocide of manganese, which does not oxidise things in the same way as potassium permanganate. We should make the above by triturating the binocide with the kaolin and massing with glycer. tragacanth.]

Varnishing Pills.

SIR,—Why am I unable to varnish phosphorus pills? They contain, besides phosphorus, reduced iron and ext. nuc. vom. I have had the same trouble too with phosph. quinine and nuc. vom. with reduced-iron pills. I dissolve the phosphorus in bisulphide of carbon, and probably that is the reason why the varnish will not dry. The varnish is a solution of spent tolu balsam in ether 1 to 3.

Yours truly,

NEMO. (6/30.)

Lactate-of-iron Mixtures.

127/90. *West Indian Subscriber*.—The difference in the mixtures is due to the strength of the lactic acid used. Our correspondent submitted two prescriptions containing liq. ferri perchlor., acid. lactic. dil., and in one liq. ammon. and the other sodæ bicarb. We find that when made up according to the U.S. Pharmacopœia they produce clear port-wine coloured solutions. Using ac. lactic. dil., B.P., muddy mixtures are produced.

LEGAL QUERIES.

We do not give legal opinions by post. Information regarding most legal matters in connection with pharmacy will be found in THE CHEMISTS' AND DRUGGISTS' DIARY, and in "Pharmacy and Poison Laws of the United Kingdom," and Alpe's "Handy-book of Medicine-stamp Duty."

21/38. *Caution* (Glasgow) will only be answered if he sends his real name, and is found to be a subscriber.

21/20. *Maladroit*.—An unqualified person cannot legally be a partner in a chemist's business, even though his other partner or partners are qualified. The case you describe would seem to be a fairer one for incorporation under the Companies Act than most of those in which that Act has been used for evading the Pharmacy Act.

20/10. *W. & Co.*—When you buy a job line of goods at a low price you do not expect to get articles equal to new. A "job line" does not necessarily imply that the goods are damaged, and if they were utterly useless for the purpose you could get your money back. But we think a Court would allow a moderate degree of injury. A "job line" is something out of the usual course of trade.

16/52. *Ol. Ricini* has a label copyrighted at Stationers Hall. Another person is using an exact copy of it. How can he most cheaply stop this? [Assuming that the label is a proper subject of copyright, an injunction can be obtained either in the High Court or the county court. In the latter case the higher scale of costs is allowed to the successful party. The form of action is the same as in an ordinary case, but we should advise our correspondent to employ a solicitor if he wishes to be successful.]

15/49. *Jasper* asks whether a deed of partnership executed by anyone but a solicitor is legal, and, if so, what stamp would be required to render it valid. [It is not at all necessary for a solicitor to attest the execution of a deed of partnership. A notice of dissolution of partnership for the *London Gazette*, however, generally requires attestation by a solicitor. The proper stamp for an ordinary deed of partnership is 10s.; but if any property passes by the

deed (which is not usual) the *ad valorem* stamp of 10s. per 100l. will have to be impressed in addition.]

24/17. *Once Bitten*.—It is illegal for your unqualified assistant to sell any poison or preparation of a poison except under the direct supervision of a qualified chemist. It would not be illegal for him or for the errand-boy to take an order for the poison or receive the money for it so long as you or some qualified person actually conducts the sale.

MISCELLANEOUS INQUIRIES.

We reply to our subscribers and their employés only; queries must, therefore, be authenticated by the name and address of the subscriber. When more than one query is sent write each on a separate piece of paper. When a sample accompanies a query full particulars regarding the origin and use of the sample must be given, and the name of the querist should be placed on the sample. Queries are not replied to by post.

13/14. *W. W.*—French Polish.—"In making French polish, composed of shellac, resin, thus, juniper and methylated spirit, is it best to strain the product through tow in a funnel? After doing so, should the strained product be allowed to settle and the clear poured off, or should that which settles be shaken up and used with the clear?" [As to the straining there is no question; "W. W." indicates the best way to do it. But the clearing is a different matter. Shellac varnishes are best when clear, but polishers do not think it wise to remove the sediment from polish. The reason they probably do not know, but it is that the sediment consists largely of waxy and fatty matter, which is of distinct value in aiding the rubbing. Good polishers are always careful to shake their polish well before putting it on the polishing-rag.]

10/52. Goliath.—Veterinary Oils for External and Internal Use:—

Creosote	..	..	..	..	..	5ij.
Turpentine	..	..	..	..	..	3ij.
Bloomless mineral or cotton-seed oil	..	..	..	..	..	5vj.

Mix. May be coloured as desired.

Doses: 3j. in half-pint of water for colic in horses; 3j. in half-pint of water to cow for difficult calving; 3j. in half-pint of water to mare for difficult foaling; 3j. in half-pint of water to cleanse cow or mare; 3ss. for sheep after difficult lambing; 3ss. for diarrhoea or scour in calves.

Apply to navel of calves or lambs if swollen or inflamed; also externally for fly-galls, ulcerated or sagged udders, bites of dogs, wounds, swellings, &c.

For readers other than "Goliath" we should explain that these are his directions, and our formula.

14/47. *Ergotine*.—"Tonic Bitters composed of hops, podophyllin, buchu, dandelion, &c. Dose.—Adults, one tablespoonful to be taken twice or three times a day, between meals, in sherry, soda, or plain water. Children, one or two teaspoonfuls, according to age, in a little sweetened water." This is the usual label, and the following is a safe mixture to put in the bottle it is stuck on:—

Tr. podophyllini (gr. j. to 3j. s. am. ar.)	..	3ss.
Tr. buchu	..	5vj.
Tr. chiretta	..	5ij.
Tr. senegae	..	3ss.
Ext. taraxaci liq.	..	3iss.
Acid. salicylic.	..	gr. v.
Inf. lupuli ad	..	3xx.

M.

14/54. *C. J. E.*—Glycerine-and-cucumber Jelly.—This is a glycerine-jelly tinted with chlorophyll and flavoured with spirit of cucumbers about 1 oz. to the pound. Spirit of cucumber is distilled from a spirituous maceration of the fresh fruit.

17/24. Subscriber.—Egg-powder.—

	Parts
Baking-powder	1
Rice-flour	2

Previous to mixing colour the rice-flour with a solution of aniline-orange to a dark egg-yolk tint; dry, then mix with the baking-powder.

14/59. *Tenax*.—Antipyrin-mixture for Influenza.—The following is quite safe:—

Antipyrin.	℥ij.
Tr. earlam. eo.	℥ss.
Glycerini	℥ss.
Aq. ad	℥viij.

Dose: A tablespoonful every four hours.

The addition of liq. ammon. acet. is not of advantage, the antipyrin alone being sufficient.

14/62. *Hands*.—Books on Manicure and Chiropody.—We are not familiar with any. Can someone give a hint?

14/38. *Edina*.—(1) Bottle-capping.—Messrs. J. Ewen & Son offer flare-skins, which we find to be better than bladder. (2) *Ionone*.—Messrs. Burgoyne, Burbidges & Co. are the agents for this.

13/72. *Iodine*.—Liq. Calcis Iodinæ.—This is a London house's speciality. We cannot trace any formula for it. Are you correct in saying that "it is a cheap substitute for liq. pot. iodid."?

14/30. *Corks*.—Clark's Claret.—We do not know an injection of this name. Is it not red lotion?

14/36. *Typhoid*.—L.G.B. Disinfecting-solution:—

Corrosive sublimate	℥ss.
Hydrochloric acid	℥j.
Aniline-blue	gr. v.
Water	cong. iij.

Dissolve.

14/35. *Subscriber*.—Blood-mixture.—See mist. sarsæ co. in the DIARY, page 478. "Blood-mixture" is a proprietary title.

15/67. *Verax*.—We are not aware that any physicians make a speciality of "diseases of the stomach," but among all-round men whose name is known in connection with the physiology of digestion and nutrition we may mention Dr. Lauder Brunton (Stratford Place, W.), Dr. Burney Yeo (44 Hertford Street, Mayfair), and Sir William Roberts (Manchester Square, W.).

16/69. *Paddy*.—Acetylene as an Illuminant.—There is no question of the beauty of the light given by acetylene, but we have not sufficient experience of it to be able to recommend it as a substitute for coal-gas at 5s. per 1000 cubic feet—i.e., in respect to price. So far as the cost of materials is concerned, the price per candle-power comes below the above figures, but there are other things to be reckoned in, and the use of the gas has not become sufficiently general to give a basis for calculation. Messrs. Read Holaday & Sons (Limited), Huddersfield, will give you information regarding the apparatus and cost. The acetylene illumination has, so far, been used for special purposes. It is a beautiful light, there is no doubt about that; but we find that rooms in which acetylene is burnt have a distinct odour of cyanogen. Otherwise the gas is not without danger. We have for some weeks been noticing the accidents which have resulted through its use on the Continent. The death-roll is becoming a long one, and in France and Germany special regulations have been enforced to limit its use, while the fire-insurance companies there have increased their rates for premises in which acetylene is burnt. At present no such regulations have been spoken of in the United Kingdom.

6/30. *Nemo*.—*Ionone*.—Further in reply to yours we may state that the makers of ionone do not sell it in the crystalline state, but only in the 10-per-cent. solution.

16/33. *B. H. B.*—(1) Digestive-candy.—We think it would be injudicious to put aloes in digestive-candy. *Per se* dec. aloes co. is nice to some people, and with a sufficiency of liquorice, as you suggest, it might be passable in a candy. Why not try a little podophyllin in the candy—say, $\frac{1}{20}$ gr. in each dose? (2) We have the treatise in the press for publication in book form early in the spring, and you cannot do better than wait for it.

22/20. *Tenax*.—Mange-lotion.—The solution which you require is liq. calc. sulph., DIARY, page 278.

13/43. *H. S. V.*—Cheap Shaving-cream:—

Lanoline	1 oz.
Almond oil	1 oz.
Best soft soap	4 lbs.
Oil of bitter almonds	30 drops.
Oil of bergamot	60 drops.

Put the lanoline and almond oil in a large mortar previously warmed with boiling water, blend a few ounces of the soap with the fats, then add more soap, and so on until the whole of it is thoroughly mixed. Then add the perfumes, stirring well until it is pearly.

The soap used should be stiff.

Liquid Dry Shampoo:—

Spt. ammon. arom.	℥ss.
Aq. lavand.	℥j.
Spt. myrice ad	℥vj.

M.

13/28. *A New Subscriber*.—See reply to T. B. in our issue of January 16. All the varnishes which you want are made by the process described. We think you would be better not to try to make them.

13/11. *A. S. (N. S. W.)*.—Drying Powders on the Large Scale.—Manufacturers of baking-powders and the like generally have waste heat in their factories, and this they utilise in drying-rooms, which vary in temperature from 70° F. upwards. The best temperature for drying the ingredients of baking-powder is 80° to 90° F. A drying-room is often constructed over the steam boiler, but the temperature there (unless the boiler is well coated) is 120° F. at least. If you have not this convenience you should get a suitable cupboard constructed, with spare shelving all round the walls and a hot-air or hot-water pipe passing round the bottom. The powders are placed upon trays on the shelves, and with a little experience one learns how to manipulate the heat and the powders. **Carbolic Disinfecting-powder.**—Amongst the articles used as a basis for this are shale residue, powdered gypsum (natural), and kieselguhr, or any unalterable and absorbent earthy powder. To one of these 10 to 20 per cent. of carbolic acid is added, with some colouring such as powdered red brick. **Starch-gloss.**—See last week's issue. **Egg-powder.**—See reply to "Subscriber." **Custard-powder:**—

Oswego corn-flour	1 lb.
Montserrat arrowroot	1 lb.
Oil of bitter almonds	10 drops
Oil of lemon	15 drops

Mix and colour with a trace of orange-aniline.

Black Copying-ink is made by a sufficiency of sugar ($\frac{1}{2}$ oz. to the pint or so) to ink.

16/20. *Eugnot*.—Glycerine and Cucumber.—This is one of many formulæ which we have previously published:—

Cocoaunt-oil soap	℥ij.
Powdered borax	℥ij.
Cucumber ointment	℥j.
Glycerine	℥j.
Essence of Jokey Club	℥ss.
Distilled water	℥j.

Melt the ointment, dissolve the soap and borax in the water by the aid of heat, add the ointment, and shake until nearly cold, then add the glycerine and the perfume.

6/18. *Lex*.—Washing Turkey Bath-towels is not a process in which we can claim to be specialists, but we are informed that the way to have them stiff is to buy linen ones. Cotton towels do not stiffen in drying unless some starch is put in the last wash-water.

23/67. *Puzzled*.—Dispensing-charges for Doctors.—Our correspondent dispenses for a doctor at the following rates:—Mixtures, ℥vj. and ℥viij. c.v., 9d.; under ℥vj., 6d.; pills, 4d. a dozen, and so on. He wishes to know the custom as regards Sunday work, and after business hours; also if charges include delivery to the doctor's house or to the patients. Our experience is that no extra charge is made for Sunday dispensing and delivery to the doctor's house. It is most unusual to deliver to patients, or to dispense after hours, at these rates, and we think that a friendly arrangement should be made with the doctor in regard to these matters.

7/18. Inquisitive and Nemo.—One-solution Photographic Developer :—

Hydroquinone	℥iiss.
Potassium metasilphite	℥iv.
Distilled water	℥iv.
Dissolve—	
Potassium carbonate	gr. 840
Distilled water	℥iv.

Dissolve and mix with the above solution.

For use dilute with five times its volume of water.

16/30. Acid. Boric.—For Darkening and Lengthening the Eyelashes :—

Pilocarpine nitrate	gr. j.
Rectified spirit	℥xxx.
Rose-water	℥ij.

Dissolve.

To be painted carefully on the eyelashes night and morning.

This is said to have the effect, but ladies who wish to improve upon nature in an unnatural direction need some soft sawder thrown in with toilet specialities.

15 35. E. J. G.—Your rendering is correct as far as we can make out.

253/21. C. J. M.—We have examined the soap several times, but have failed to discover any specific substance in it detectable by chemical analysis, nor have we seen anything published regarding its composition.

15 6. S. L.—**Skeleton-leaves** are made by immersing the leaves in weak solution of potash, or any other alkali, and solution of chlorinated lime—day about. After each immersion wash the leaves carefully in cold water, and brush away the soft parts that are loose by means of a camel hair-pencil. It takes about six weeks to prepare the leaves.

15/26. Salol.—**Cream-of-Tartar Substitutes.**—Acid sulphate of potash is the commonest substitute. Sometimes it is mixed with 10 per cent. of starch. Acid phosphate of ammonia is also used.

INFORMATION WANTED.

The Editor will be obliged for replies to the following from any who can furnish the information.

- 19/37.** Dragon's-blood in tears: where obtainable?
15/40. Mydrol: name of maker or agent?
17/65. The address of "Arnaway's Trust," or information concerning it?
15 12. Name of importer or agent for machine blacklead in boxes marked "G (in diamond) N."

Coming Events.

Notices of Association and Society Meetings will be inserted in this section free of charge if we receive intimation of such meetings by Wednesday of the week previous to that in which the meetings are to be held.

Saturday, January 23.

Pharmaceutical Football Club v. Spratt's, at Wormholt Farm (home ground). Kick-off at 3. Train from Gower Street at 1.58.

Tuesday, January 26.

Royal Photographic Society, 12 Hanover Square, W., at 8 P.M. "Architectural Photography." Illustrated. By Mr. Ernest Marriage.

Royal Institution, Albemarle Street, W., at 3 P.M. Professor A. D. Waller, on "Animal Electricity."

Wednesday, January 27.

Society of Chemical Industry (Nottingham Section), Station Hotel, Barton-on-Trent, at 7.30 P.M. Business:—Discussion on the Chairman's Address: "The Commercial Position of Sulphate of Ammonia." "A Note on Kjeldahl's Process," and "A Note on Maltose," by James O'Sullivan, F.I.C.

Western Chemists' Association (of London). Smoking-concert at the Westbourne Restaurant, 1 Craven Road, W., at 8.30 P.M.

Midland Chemists' Assistants' Association, Exchange Rooms, Birmingham, at 9 P.M. Musical and Social Evening.

Nottingham and Notts Chemists' Association, Circus Street Hall, at 8.30 P.M. Lecture by Mr. W. L. Howie, on "From Mont Blanc to the Matterhorn." Tickets may be obtained from Mr. Eberlin, 2 Chapel Bar.

Newcastle.—Crown Hotel, Clayton Street, at 8 P.M. Meeting of Chemists residing in Hexham, Claydon, Gateshead, Hebburn, Jarrow, South and North Shields, Blyth, Bedlington, Chester-le-Street, Wallsend, to make arrangements for forming a local Chemists' Association for the district.

Plymouth, Devonport, Stonehouse, and District Chemists' Association. Quarterly meeting, at Foresters' Hall, Octagon, Plymouth, at 7 P.M. Business:—Discussion regarding augmentation of the Benevolent Fund; a new cheap rate for parcels from London to members of the Association, explained by Mr. J. Harvey Bailey; further discussion on "C.A.M.W.A.L.," introduced by Mr. James Maurice; advisability of appointing sub-committees for trade and educational matters; and the claims of the P.A.T.A. will be further considered.

Thursday, January 28.

Chemists' Assistants' Association, 103 Great Russell Street, W.C., at 9 P.M. Mr. J. C. Hyslop on "Popular Pharmacy."

Royal Institution, Albemarle Street, W., at 3 P.M. Professor Henry A. Miers, on "Some Secrets of Crystals."

The Chemists' Club. A smoking-concert. Chair to be taken by Dr. MacGregor at 8 P.M.

Liverpool Chemists' Association, Royal Institution, at 7 P.M. Business: Annual Report, Treasurer's Statement, Election of Eight Members of Council. Inaugural Address by the President, Mr. A. C. Abraham.

Society of Arts, John Street, Adelphi, at 8 P.M. "The Mechanical Production of Cold," by Professor James A. Ewing (Howard Lecture, No. 1).

Friday, January 29.

Edinburgh Chemists' Assistants' and Apprentices' Association, 36 York Place, at 9.15 P.M. Mr. J. R. Thompson's "Laboratory Notes," and Mr. George Senter on "The Chemistry of Sugars."

Aberdeen Junior Chemists' Association, 21 Bridge Street, at 9.30 P.M. Mr. F. J. Hambly on "Soap Bubbles."

Royal Institution, Albemarle Street, W., at 9 P.M. Professor Jagadis Chunder Bose (Calcutta), on "The Polarisation of the Electric Ray."

The *Plymouth and District Junior Chemists' Association* are arranging a smoking-concert to be held at the "Globe" Hotel, Plymouth, on Wednesday, February 3.

The students' annual ball in connection with the *North of England School of Chemistry and Pharmacy* will be held in the Grand Assembly Rooms, Barras Bridge, Newcastle, on February 3. Tickets: double, 7s. 6d.; gentlemen's, 5s.; ladies', 3s.; may be obtained from the Hon. Secretaries, Messrs. Dickson and Dewar.

The *School of Pharmacy Students' Dinner*, which is taking the place of the annual football club dinner, will be held in the Duke's Salon, Holborn Restaurant, on Friday, February 26, Professor Greenish in the chair. It is hoped that all old students and others interested in the school will avail themselves of this opportunity of an annual reunion. Tickets, price 5s., may be had of the Hon. Secretary, Mr. T. P. Tebbutt, 17 Bloomsbury Square, W.C., to whom all inquiries should be addressed.

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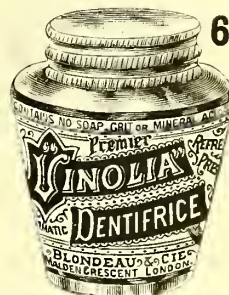
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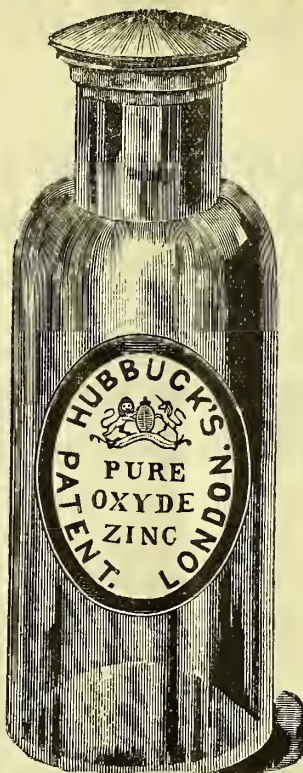
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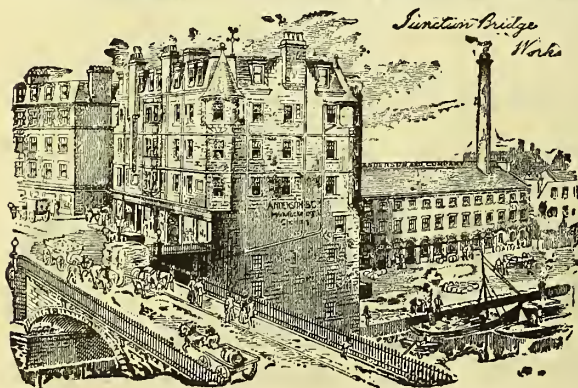
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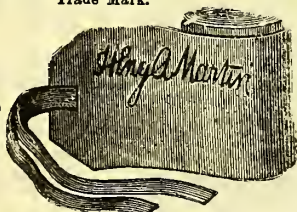
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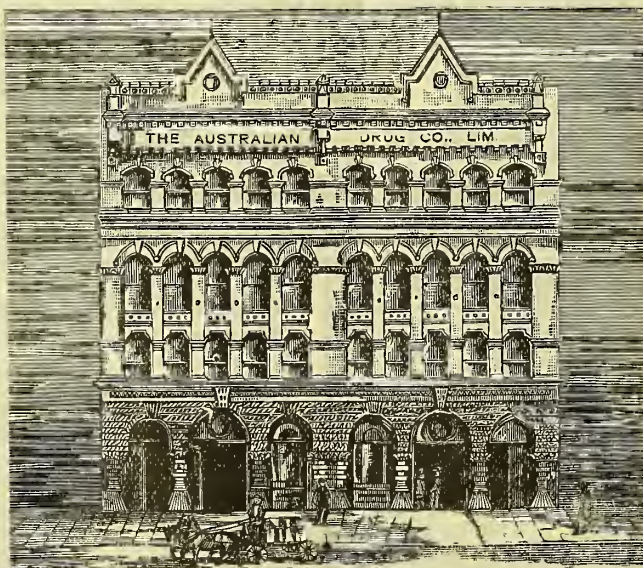
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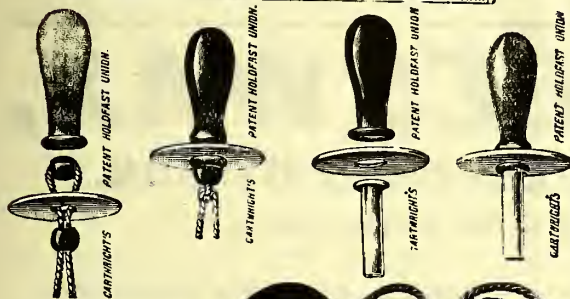
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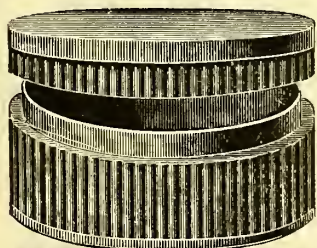
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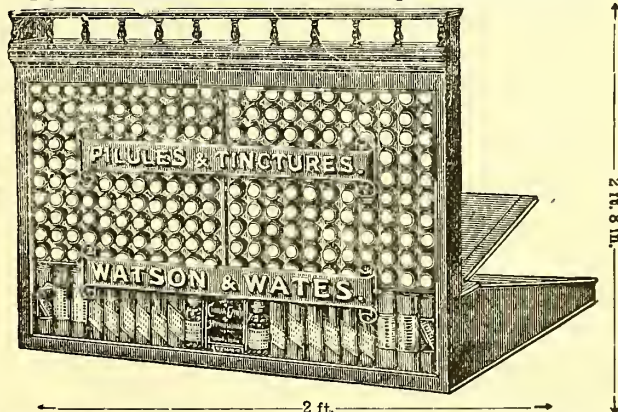
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## WHY SHOULD THE "McK. & R." PILLS BE PRESCRIBED ?

1. Because they are prepared from materials of the highest quality only.
2. Because they are made according to the B.P. or other Standard Authorities, and therefore all the combinations are well tried and of recognised value.
3. Because they are taken pleasantly—being tasteless—and readily, being ovoid in form.
4. Because they are not subjected at any stage of preparation to the injurious action of heat.
5. Because the coating of *pure transparent gelatine* preserves the contents from oxidation.
6. Because they are always soluble, and the contents soft and quickly disintegrated.

## LIST OF PRINCIPAL CAPSULED PILLS.

|                                                                                                 |                       |
|-------------------------------------------------------------------------------------------------|-----------------------|
| Aloes, all the B.P. combinations.....                                                           | 5 gr.                 |
| Aloes, Dilute (Dr. Hall Dinner Pill).....                                                       | 4 gr.                 |
| Aloes Barb.                                                                                     |                       |
| Saponis Pulv.                                                                                   |                       |
| Pulv. Ext. Glycyrrh.                                                                            |                       |
| Theriac, āā.....                                                                                | 1 gr.                 |
| Aloes and Nux Vomica—                                                                           |                       |
| Aloes Soc. ....                                                                                 | 1½ gr.                |
| Ext. Nucis Vom.....                                                                             | ½ gr.                 |
| Aloin .....                                                                                     | ¼, ½, 1 gr.           |
| Aloin, various combinations.                                                                    |                       |
| Anti-Dyspepsia (Fothergill)—                                                                    |                       |
| Strychnina .....                                                                                | ½ gr.                 |
| Pulv. Piper Nig. ....                                                                           | 1½ gr.                |
| Pulv. Ipecac.....                                                                               | 2-3 gr.               |
| Ext. Gent.....                                                                                  | 1 gr.                 |
| Arsenious Acid.....                                                                             | 1-20, 1-50 gr.        |
| Asafetida, U.S. and B.P. ....                                                                   | 5 gr.                 |
| Atropine .....                                                                                  | 1-100, 1-300 gr.      |
| Blue Pill, B.P. ....                                                                            | 1, 2, 3, 5 gr.        |
| Blue Pill, with Colocynth and Hyoscyam...                                                       | 5 gr.                 |
| Calcium Sulphide .....                                                                          | 1-10, 1-4, 1-2, 1 gr. |
| Calomel, Colocyn., and Hyosc.....                                                               | 5 gr.                 |
| Calomel Co., B.P. ....                                                                          | 5 gr.                 |
| Camphor and Hyoscyam.....                                                                       | 2 gr.                 |
| Camphora                                                                                        |                       |
| Ext. Hyoscy., āā .....                                                                          | 1 gr.                 |
| Cannabis Indica .....                                                                           | 1-4, 1-2 gr.          |
| Cascara Sagrada .....                                                                           | 3 gr.                 |
| Cathartic Comp., U.S.P.                                                                         |                       |
| Ext. Jalap .....                                                                                | 1 gr.                 |
| Ext. Coloc. Co. ....                                                                            | 1-13 gr.              |
| Hyd. Subchlor. ....                                                                             | 1 gr.                 |
| Gambog. ....                                                                                    | 1-4 gr.               |
| N.B.—The ready solubility of the "McK. & R." Pills is readily proved by taking a dose of these. |                       |
| Colocynth Comp., B.P.....                                                                       | 4, 5 gr.              |
| Colocynth, other combinations.                                                                  |                       |
| Copaiba Compound—                                                                               |                       |
| Cubeba Pulv. ....                                                                               | 2 gr.                 |
| Ferri Sulph. Exsic. ....                                                                        | 1-2 gr.               |
| Mass. Copalb. ....                                                                              | 1 gr.                 |
| Tereb. Venet.....                                                                               | 1-12 gr.              |
| Corrosive Sublimate.....                                                                        | 1-30, 1-20, 1-10 gr.  |

|                                                                                                                                                        |                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Croton Oil.....                                                                                                                                        | 1-2 gr.                  |
| Diuretic—                                                                                                                                              |                          |
| Ext. Buchu, Potass. Nitrat.....                                                                                                                        | 1 gr.                    |
| Scillae Pulv. ....                                                                                                                                     | 1-2 gr.                  |
| Emmenagogue—                                                                                                                                           |                          |
| Ferr. Sulph. Exsic. ....                                                                                                                               | 1-12 gr.                 |
| Thus, American .....                                                                                                                                   | 1-12 gr.                 |
| Aloes Socot. ....                                                                                                                                      | 1-2 gr.                  |
| Ergotin .....                                                                                                                                          | 3 gr.                    |
| N.B.—Each Pill = 30 gr. ergot or 30 ms. fl. extract. This form is more reliable and uniform in effect and more agreeable than the liquid preparations. |                          |
| Euonymin .....                                                                                                                                         | 2, 3 gr.                 |
| Iodoform and Iodoform with Iron.....                                                                                                                   | 1 gr.                    |
| Ipecac. ....                                                                                                                                           | 1-4, 5 gr.               |
| Ipecac. Co. ....                                                                                                                                       | 5 gr.                    |
| Ipecac. and Squill, B.P. ....                                                                                                                          | 5 gr.                    |
| Iron Pill, B.P. Add .....                                                                                                                              | 3, 5 gr.                 |
| Iron Arseniate .....                                                                                                                                   | 1-8 gr.                  |
| Iron reduced by Hydrogen (Quevenne)...                                                                                                                 | 1, 4 gr.                 |
| Iron and Quinine Citrate.....                                                                                                                          | 2 gr.                    |
| Laxative, Vegetable—                                                                                                                                   |                          |
| Res. Podoph. ....                                                                                                                                      |                          |
| Ext. Hyoscy. ....                                                                                                                                      |                          |
| Ext. Tarax., āā .....                                                                                                                                  | 1-4 gr.                  |
| Ext. Coloc. Co. ....                                                                                                                                   | 1 gr.                    |
| Jalapae .....                                                                                                                                          |                          |
| Res. Leptand. āā.....                                                                                                                                  | 1-2 gr.                  |
| Ol. Menth. Pip. ....                                                                                                                                   |                          |
| Mercury, Binioidide .....                                                                                                                              | 1-16 gr.                 |
| Mercury, Proto-iodide .....                                                                                                                            | 1-20, 1-16, 1-8, 1-4 gr. |
| N.B.—Made from the absolutely pure yellow impalpable powder, free from mercury and from binioidide.                                                    |                          |
| So-called "green" proto-iodide contains uncombined mercury.                                                                                            |                          |
| Mercury with Chalk .....                                                                                                                               | 1 gr.                    |
| Morphine Muriate .....                                                                                                                                 | 1-8, 1-4 gr.             |
| Nitro-Glycerine .....                                                                                                                                  | 1-200, 1-100, 1-50 gr.   |
| Opium .....                                                                                                                                            | 1 gr.                    |
| Opium and Camphor.....                                                                                                                                 | 1 gr.                    |
| Opil Pulv.....                                                                                                                                         | 1 gr.                    |
| Camphora .....                                                                                                                                         | 2 gr.                    |
| Pepsin, Pure .....                                                                                                                                     | 1 gr.                    |
| Phosphorus .....                                                                                                                                       | 1-100, 1-50, 1-30 gr.    |

|                                                                                                                                                                                                                         |                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| N.B.—In no kind of Pill are the advantages of the "McK. & R." method better exemplified or more in request. No other brand of Phosphorus Pills is equally reliable for the administration of the unoxidised medicament. |                             |
| Phosphorus and Iron—                                                                                                                                                                                                    |                             |
| Phosphor. Pur. ....                                                                                                                                                                                                     | 1-50 gr.                    |
| Ferr. Redact. ....                                                                                                                                                                                                      | 2 gr.                       |
| Phosphorus, Iron, and Quinine—                                                                                                                                                                                          |                             |
| Phosphor. Pur. ....                                                                                                                                                                                                     | 1-100 gr.                   |
| Ferri Carb. ....                                                                                                                                                                                                        | 1 gr.                       |
| Quinina Sulph. ....                                                                                                                                                                                                     | 1 gr.                       |
| Phosphorus and Nux Vomica—                                                                                                                                                                                              |                             |
| Phosphor. Pur. ....                                                                                                                                                                                                     | 1-50 gr.                    |
| Ext. Nucis Vom.....                                                                                                                                                                                                     | 1-4 gr.                     |
| Phosphorus and Quinine—                                                                                                                                                                                                 |                             |
| Phosphor. Pur. ....                                                                                                                                                                                                     | 1-50 gr.                    |
| Quinina Sulph. ....                                                                                                                                                                                                     | 1 gr.                       |
| Phosphorus and Valerianate of Zinc—                                                                                                                                                                                     |                             |
| Phosphor. Pur. ....                                                                                                                                                                                                     | 1-50 gr.                    |
| Zinci Valer. ....                                                                                                                                                                                                       | 1 gr.                       |
| Picrotoxin .....                                                                                                                                                                                                        | 1-80 gr.                    |
| Podophyllin .....                                                                                                                                                                                                       | 1-8, 1-4, 1-2 gr.           |
| Quinine, Bisulphate ....                                                                                                                                                                                                | 1-4, 1-2, 1, 2, 3, 4, 5 gr. |
| Quinine, Sulphate ....                                                                                                                                                                                                  | 1-4, 1-2, 1, 2, 3, 4, 5 gr. |
| Quinine Co. (Anti-Malarial).                                                                                                                                                                                            |                             |
| Largely prescribed in America with excellent results.                                                                                                                                                                   |                             |
| Rhubarb Comp., B.P. ....                                                                                                                                                                                                | 5 gr.                       |
| Rhubarb with Blue Pill .....                                                                                                                                                                                            | 5 gr.                       |
| Salicylic Acid .....                                                                                                                                                                                                    | 2, 5 gr.                    |
| Soap Comp., B.P. ....                                                                                                                                                                                                   | 5 gr.                       |
| Squill Comp., B.P. ....                                                                                                                                                                                                 | 5 gr.                       |
| Strophanthus .....                                                                                                                                                                                                      | 1-20, 1-4 gr.               |
| Strychnine .....                                                                                                                                                                                                        | 1-50 gr.                    |
| Tonic Laxative (Fothergill)—                                                                                                                                                                                            |                             |
| Quinina Sulph. ....                                                                                                                                                                                                     | 2-3 gr.                     |
| Strychn. ....                                                                                                                                                                                                           | 1-30 gr.                    |
| Ferri Redact. ....                                                                                                                                                                                                      |                             |
| Ext. Bellad., āā .....                                                                                                                                                                                                  | 1-4 gr.                     |
| Valerianates, Iron, Quinine, and Zinc.                                                                                                                                                                                  |                             |
| Warburg's Tincture and the same without Aloes.                                                                                                                                                                          |                             |
| Each Pill = 1 fl. dr. of the Tincture.                                                                                                                                                                                  |                             |
| Zinc Phosphide .....                                                                                                                                                                                                    | 1-4, 1-2 gr.                |
| Zinc Valerianate .....                                                                                                                                                                                                  | 1 gr.                       |

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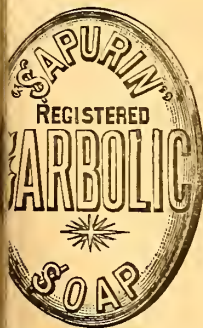
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